

IT COOLING

CLOSE CONTROL AIR CONDITIONERS

# NEXT LEGACY

## DIRECT EXPANSION



**HIGH PRECISION  
AIR CONDITIONERS,  
FROM 3 TO 155 kW**

**4 Versions available**

- ▶ Single / Double circuit
- ▶ Dual Fluid
- ▶ Full inverter
- ▶ Free cooling

# THE MOST EFFICIENT AND RELIABLE SOLUTION FOR HIGH PRECISION AIR CONDITIONING IS **NEXT LEGACY**

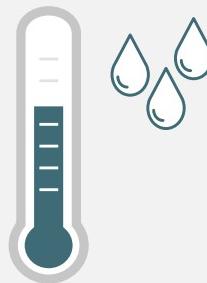
Engineered to the highest standards, NEXT LEGACY high precision air conditioners are key in most critical IT environments.



## PRECISE TEMPERATURE AND HUMIDITY CONTROL

Complex IT environments are characterized by extremely variable thermal loads, which require very high cooling capacity at full load in order to not compromise the correct operation of the IT machines when they are most needed.

NEXT LEGACY range makes it possible to keep temperature and humidity constant even with very strong load variations, ensuring premium sensible cooling capacity values.



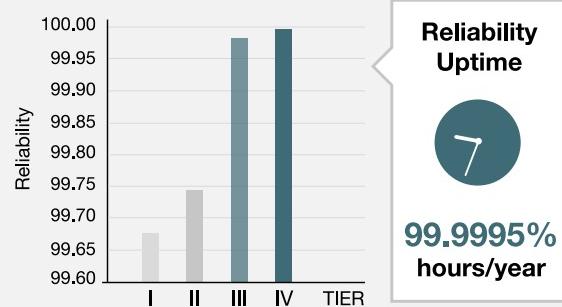
## THE PERFECT MATCH BETWEEN EFFICIENCY AND RELIABILITY

Nowadays efficiency is no longer considered to be just saving energy in respect to the single unit, but it takes into account the system's performance, complete reliability and modularity over the years.

By offering NEXT LEGACY as a solution to technological cooling problems, the company has put great effort in the use of well-known high quality components:

- ▶ EC PUL (Polymeric ULtralight) plug fans made of composite material installed as standard in all units;
- ▶ Dual fluid systems to ensure total reliability under all conditions;

Extraordinary advantages in terms of energy savings are achieved thanks to the ultimate DC inverter compressors, with extraordinary advantages in terms of energy savings.



## CUSTOMER-ORIENTED APPROACH

NEXT LEGACY range features 360° versatility, in terms of capacities (from 6 to 155 kW), as well as technologies applied to the units.

When even this is not enough, the 50-year experience of the RC IT Cooling brand is key to ensuring tailor-made solutions dedicated to specific application requirements.

### 3 Key technologies:

- ▶ **Free Cooling:** available as indirect free cooling, it ensures the total switch-off of the compressors when outdoor temperatures are below 5°C
- ▶ **Inverter:** Full DC inverter technology applied both to the compressor and EC fans
- ▶ **Dual Fluid circuits:** DF versions consisting of two independent cooling systems for the highest reliability

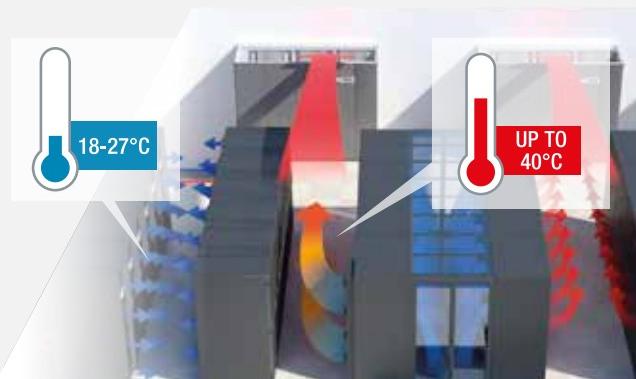


## BEYOND TRADITIONAL OPERATING LIMITS

The need for higher efficiency levels and reduced TCO values have led to increasing temperatures (up to 27°C) of intake airflows directed to the IT equipment (ASHRAE, 'Thermal Guidelines for Data Processing Environments'), thus increasing supply air temperatures.

NEXT LEGACY range has been designed to manage air suction temperature up to 40°C. Available both as Dual Fluid (DF) and Free Cooling (FC) versions, NEXT air conditioners optimize the primary water circuit performance even with high temperature fluids.

The chiller's efficiency and the free cooling operation are therefore maximized also when outdoor temperatures are high.

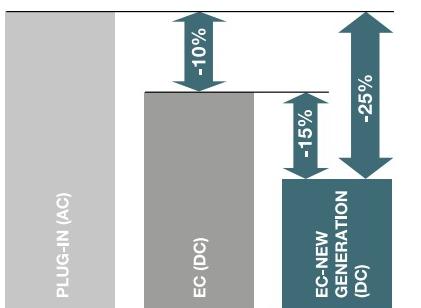


# TECHNOLOGICAL CHOICES



EC PUL PLUG FANS

**PUL**  
POLYMERIC  
ULTRALIGHT  
FAN



Aimed at optimizing energy costs, NEXT LEGACY range makes use of EC PUL (Polymeric Ultralight) fans made of composite material. Premium energy efficiency levels are achieved by the accurate management of the fan parameters such as flow rate, power and pressure.

The result is the best system operation in any working conditions.

#### Main features:

- Noise level reduced by 4-5 dB(A) compared to traditional fans
- Power absorption reduced by 25% compared to traditional fans

## EC FANS ON THE REMOTE CONDENSERS

The use of EC technology even on the remote condenser fan ensures a further average reduction of noise levels by 10%, together with a strong reduction of energy consumption by 45% compared to traditional condensers with AC technology.



## ADVANCED CONTROL SYSTEM

i-NEXT LEGACY air conditioners features a new intelligent electronic heart to keep constant control over all the operating and environmental parameters of the site.

Designed and developed internally, the new control is highly configurable according to specific user requirements, ensuring:



- ▶ Automatic restart from blackout
- ▶ Integrated management system up to 10 units (LAN)
- ▶ ACTIVE REDUNDANCY management
- ▶ Full BMS compatibility (Ethernet, Bacnet, SNMP, Modbus, TCP/IP, LON)
- ▶ BLACK BOX for predictive analysis
- ▶ DEW POINT control
- ▶ ADAPTIVE SET POINT management
- ▶ ACTIVE FREE COOLING management



## THE UNBEATABLE EFFICIENCY OF THE TOTAL INVERTER TECHNOLOGY

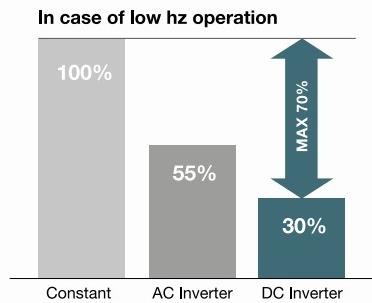
# i-NEXT

### DC INVERTER COMPRESSOR



The INVERTER technology on the compressor regulates the power capacity according to the real requirements of the servers.

The unit performance at partial loads is optimized, rapidly increasing its efficiency and reducing its consumption. This complete compressor modulation allows the unit to follow the increasing cooling requests of the data center without damaging the overall unit efficiency.



i-NEXT units adopts this technology as standard in all its models, with several benefits in terms of:

- ✓ Regulation of the power capacity according to the load requirements
- ✓ No in-rush starting current
- ✓ Energy savings of up to 50% compared to on/off units
- ✓ Reduced noise levels

**EER UP TO 8,17**

### ELECTRONIC EXPANSION VALVE



The new generation i-NEXT air conditioners with electronic expansion valves. These valves ensure optimal operation of the refrigeration cycle in every environmental condition.

#### Main features:

- ▶ Great control and wider modulation capacity
- ▶ Quickly reaches and maintains operating stability
- ▶ Accurate adjustment to load variations



# NEXT DF

## THE DUAL FLUID VERSION FOR THE CUSTOMER PEACE OF MIND

### t-NEXT DF / i-NEXT DF

**Direct expansion air conditioners  
with chilled water coil**

► **t-NEXT DF DX / i-NEXT DF DX**

Direct Expansion, air cooled

► **t-NEXT DF DW / i-NEXT DF DW**

Direct Expansion, water cooled

These units are provided as standard with two cooling circuits - one direct expansion type and the other chilled water type, which never work simultaneously.

Such circuits are connected to two different chiller lines completely independent of one another.

The Dual Fluid version is the perfect solution for those systems where reliability, safety and redundancy are at utmost importance.



## MANAGEMENT AND CONTROL SYSTEMS

In a policy of 'total communication', NEXT LEGACY range features several interconnection solutions with the latest BMS systems.



### Data Center Manager

#### Group device

DATA CENTER MANAGER is a centralized management system that ensures a smart communication between indoor chilled water units and the outdoor chillers.

The device manages the outdoor units according to the inlet and outlet temperature registered by the probes and by request of the indoor unit.

#### Main features:

- ✓ All-in-one solution for an easy installation
- ✓ Management of up to 8 units (with the same or different power ratings), on 2-pipe systems
- ✓ 8.4" touch-screen display
- ✓ Some units can be given priority
- ✓ Possibility of choosing the number of units on standby - dynamic standby
- ✓ Evenly distributes operating hours of each unit

# NEXT FC

## INDIRECT FREE COOLING TECHNOLOGY TO HARNESS THE FULL POTENTIAL OF OUTDOOR AIR

### t-NEXT FC / i-NEXT FC

**Direct expansion air conditioners with chilled water coil**

► **t-NEXT FC DW / i-NEXT FC DW**

Direct Expansion with free cooling technology, water cooled

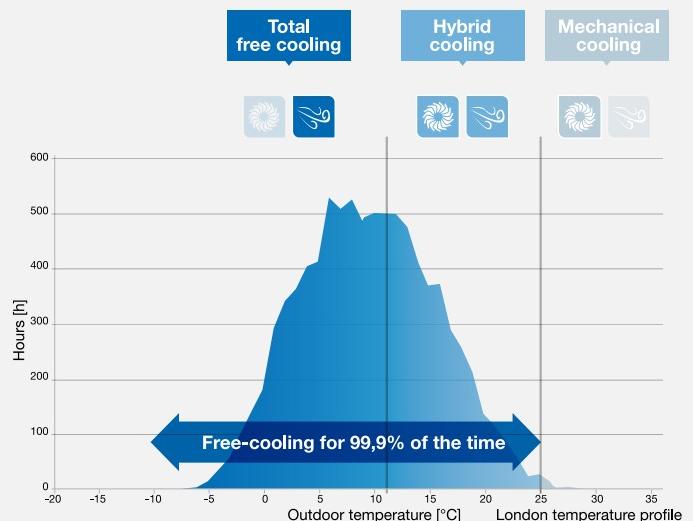
The indirect free cooling system consists of a smart combination between the total free cooling and the direct expansion working modes.

#### Total free cooling mode

When the ambient temperatures are below 5°C, the total cooling capacity is provided by the outdoor air in the free cooling coils while the compressors are off.

#### Hybrid free cooling

At ambient temperatures ranging from 5°C to 21°C, free cooling provides pre-cooling of the handled air. The compressors are activated to provide the cooling capacity necessary for the full balance of the room load.



## ClimaPRO DCO



### Chiller plant control and data center optimisation system

ClimaPRO DCO ensures perfect HVAC plant room control by managing each single component involved in the production and distribution of the thermal and cooling energy. According to the actual efficiency values of the units, this advanced management system optimally balances the unit loads, regulates the operating set-points and dynamically manages the water flow of the entire system. ClimaPRO DCO can be integrated to a BMS system or it can be completely independent.

#### Main features:

- ✓ Acquisition of real-time data from the plant
- ✓ Measurement of energy indices for the units and the entire system
- ✓ Control and management of each single unit or at a plant room level
- ✓ Active Optimization based on real time data measurement
- ✓ Detailed energy reporting and customized analysis
- ✓ Chart building for trend analysis



# COOLING MODES

**360° flexibility as a service offered  
for any type of system**

## AIR COOLED

### b-NEXT DX / t-NEXT DX / i-NEXT DX Air cooled direct expansion air conditioners

Direct expansion air conditioners to be coupled with a remote condenser. The air is treated in the evaporating coil and the condensed heat is released by means of an outdoor condenser. The condenser features a fan speed controller aimed at optimising the condensation pressure even with the most adverse climate conditions.



### t-NEXT DF DX / i-NEXT DF DX Air cooled direct expansion air conditioners with Dual Fluid system

Air cooled direct expansion air conditioners with two cooling systems which are completely independent from each other. A primary chilled water circuit connected to an outdoor chiller, is combined with a secondary direct expansion air cooled circuit.



## AIRFLOW CONFIGURATIONS

### OVER

The versions called OVER with air outflow from the top generally have the air intake at the front, rear or bottom of the unit, according to the customers' choice, and the outflow from the top is along ducts behind suspended ceilings or front delivery plenums.



Airflow: OVER, air discharged from the top, frontal air intake

Raised floor: absent  
Room Height < 3m



Airflow: OVER, air discharged from the top, air intake under the floor

Raised floor > 400 mm  
Room Height < 3m

**NEXT LEGACY** comes with a full range of solutions ranging from 3 to 155 kW, available with over or under airflow configurations.



## WATER COOLED

### b-NEXT DW / t-NEXT DW / i-NEXT DW Water cooled direct expansion air conditioners

Direct expansion water cooled conditioners with built-in water cooled condenser. The air is treated in the evaporating coil and the condensation heat is released by means of a plate type exchanger connected to a water circuit. Condensation water can be extracted from a well, a local water system or from closed circuits such as cooling towers or dry coolers.



### t-NEXT DF DW/ i-NEXT DF DW Water cooled direct expansion air conditioners with Dual Fluid system

Water cooled direct expansion air conditioners with two cooling systems which are completely independent one to each other. The units are equipped with a built-in water cooled condenser. The primary chilled water circuit consisting of a chilled water coil is connected to an outdoor chiller. The secondary circuit is direct expansion type.



### t-NEXT FC DW / i-NEXT FC DW Water cooled direct expansion air conditioners with Free Cooling system

Water cooled direct expansion air conditioners equipped with a built-in water cooled condenser, featuring two cooling systems. The primary direct expansion circuit is combined with a secondary chilled water circuit generally connected to an outdoor dry cooler. The two circuits are often working together in partial free cooling mode.



Airflow: OVER, air discharged from the top, air intake from the rear/bottom of the unit

Raised floor: absent  
Room Height < 3m

## UNDER

UNDER version feature air suction from the top of the unit and air delivery in the underfloor void.



Airflow: UNDER, air discharged from the bottom under the floor with air intake from the top

Raised floor > 400 mm  
Room Height < 3m



# NEXT LEGACY

HIGH PRECISION AIR CONDITIONERS, FROM 3 TO 155 kW

AIR COOLED

## b-NEXT DX Air Cooled Direct Expansion Air Conditioners (AC fans)

| b-NEXT-UNDER                     |         | 007 P1 S   | 009 P1 S   | 011 P1 S   | 014 P1 S   | 016 P1 S   | 020 P1 S   | 022 P1 S   | 026 P1 S   | 032 P1 S   | 037 P1 S   | 041 P1 S   |
|----------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frame                            |         | E0         | E0         | E1         | E2         | E2         | E3         | E3         | E3         | E4         | E4         | E4         |
| Power supply                     |         | V/ph/Hz    | 400/3+N/50 |
| <b>PERFORMANCE</b>               |         |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross     | (1)     | kW         | 6,37       | 7,73       | 10,7       | 14,0       | 15,0       | 20,6       | 22,5       | 26,3       | 31,8       | 36,4       |
| Sensible cooling capacity gross  | (1)     | kW         | 6,29       | 7,05       | 10,7       | 14,0       | 15,0       | 20,6       | 22,5       | 25,8       | 31,7       | 34,2       |
| Total power input (Comp.+fans)   | (1)     | kW         | 1,65       | 2,02       | 2,75       | 3,45       | 3,84       | 5,15       | 5,94       | 7,03       | 7,48       | 8,43       |
| EER (Indoor unit)                | (1)     | kW/kW      | 3,86       | 3,83       | 3,89       | 4,06       | 3,91       | 4,00       | 3,79       | 3,74       | 4,25       | 4,15       |
| SHR                              | (2)     |            | 0,99       | 0,91       | 1,00       | 1,00       | 1,00       | 1,00       | 0,98       | 1,00       | 0,94       | 0,96       |
| <b>REFRIGERANT CIRCUIT</b>       |         |            |            |            |            |            |            |            |            |            |            |            |
| Compressors nr.                  | N°      |            | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| No. Circuits                     | N°      |            | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Refrigerant charge               | kg      |            | 2,30       | 2,30       | 3,20       | 3,40       | 3,40       | 4,00       | 4,00       | 5,70       | 5,70       | 8,60       |
| <b>FANS</b>                      |         |            |            |            |            |            |            |            |            |            |            |            |
| Fans type                        |         | PLUG FAN   | PLUG FAN   | AC RADIAL  | PLUG FAN   |
| Quantity                         | N°      | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Air flow                         | (3)     | m³/h       | 1660       | 1660       | 3120       | 4340       | 4340       | 6650       | 6650       | 8150       | 8150       | 9800       |
| <b>NOISE LEVEL</b>               |         |            |            |            |            |            |            |            |            |            |            |            |
| Sound Power                      |         | dB(A)      | 57         | 57         | 57         | 65         | 65         | 67         | 67         | 67         | 71         | 75         |
| Sound Pressure                   | (4)     | dB(A)      | 42         | 42         | 41         | 49         | 49         | 51         | 51         | 51         | 54         | 58         |
| <b>SIZE AND WEIGHT</b>           |         |            |            |            |            |            |            |            |            |            |            |            |
| A                                | (3)     | mm         | 655        | 655        | 650        | 785        | 785        | 1085       | 1085       | 1305       | 1305       | 1305       |
| B                                | (3)     | mm         | 445        | 445        | 675        | 675        | 675        | 775        | 775        | 930        | 930        | 930        |
| H                                | (3)     | mm         | 1680       | 1680       | 1925       | 1925       | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       |
| Weight                           | (3)     | kg         | 160        | 160        | 238        | 270        | 275        | 320        | 325        | 420        | 425        | 437        |
| <b>COUPLING UNIT EXTERNAL</b>    |         |            |            |            |            |            |            |            |            |            |            |            |
| Standard remote condenser linked |         |            |            |            |            |            |            |            |            |            |            |            |
| Voltage                          |         |            |            |            |            |            |            |            |            |            |            |            |
| Quantity                         |         | N°         |            |            |            |            |            |            |            |            |            |            |
| b-NEXT-UNDER                     |         | 045 P1 S   | 039 P2 D   | 048 P2 D   | 055 P2 D   | 062 P2 D   | 075 P2 D   | 082 P2 D   | 092 P2 D   | 102 P2 D   | 117 P4 D   | 146 P4 D   |
| Frame                            |         | E4         | E5         | E5         | E6         | E6         | E7         | E7         | E8         | E8         | E9         | E9         |
| Power supply                     | V/ph/Hz | 400/3+N/50 |
| <b>PERFORMANCE</b>               |         |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross     | (1)     | kW         | 44,8       | 36,9       | 47,7       | 56,5       | 63,2       | 74,7       | 82,0       | 91,1       | 103        | 119        |
| Sensible cooling capacity gross  | (1)     | kW         | 41,6       | 35,3       | 44,4       | 53,6       | 58,7       | 74,1       | 78,1       | 85,2       | 91,5       | 115        |
| Total power input (Comp.+fans)   | (1)     | kW         | 10,9       | 8,69       | 11,8       | 13,9       | 15,1       | 17,9       | 19,8       | 21,6       | 25,4       | 30,0       |
| EER (Indoor unit)                | (1)     | kW/kW      | 4,11       | 4,25       | 4,04       | 4,06       | 4,19       | 4,17       | 4,14       | 4,22       | 4,06       | 3,97       |
| SHR                              | (2)     |            | 0,93       | 0,96       | 0,93       | 0,95       | 0,93       | 0,99       | 0,95       | 0,94       | 0,89       | 0,97       |
| <b>REFRIGERANT CIRCUIT</b>       |         |            |            |            |            |            |            |            |            |            |            |            |
| Compressors nr.                  | N°      |            | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 4          | 4          |
| No. Circuits                     | N°      |            | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          |
| Refrigerant charge               | kg      |            | 8,60       | 9,00       | 9,00       | 9,80       | 9,80       | 16,2       | 16,2       | 17,4       | 21,6       | 21,6       |
| <b>FANS</b>                      |         |            |            |            |            |            |            |            |            |            |            |            |
| Fans type                        |         | PLUG FAN   |
| Quantity                         | N°      | 1          | 1          | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 3          | 3          |
| Air flow                         | (3)     | m³/h       | 9800       | 8450       | 10350      | 15200      | 15200      | 19200      | 19200      | 20350      | 20350      | 29400      |
| <b>NOISE LEVEL</b>               |         |            |            |            |            |            |            |            |            |            |            |            |
| Sound Power                      |         | dB(A)      | 75         | 72         | 76         | 73         | 73         | 78         | 80         | 80         | 81         | 81         |
| Sound Pressure                   | (4)     | dB(A)      | 58         | 55         | 59         | 56         | 56         | 61         | 62         | 62         | 63         | 63         |
| <b>SIZE AND WEIGHT</b>           |         |            |            |            |            |            |            |            |            |            |            |            |
| A                                | (3)     | mm         | 1305       | 1630       | 1630       | 1875       | 1875       | 2175       | 2175       | 2499       | 2499       | 2899       |
| B                                | (3)     | mm         | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        |
| H                                | (3)     | mm         | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       |
| Weight                           | (3)     | kg         | 445        | 530        | 540        | 620        | 640        | 745        | 750        | 845        | 845        | 1020       |
| <b>COUPLING UNIT EXTERNAL</b>    |         |            |            |            |            |            |            |            |            |            |            |            |
| Standard remote condenser linked |         |            |            |            |            |            |            |            |            |            |            |            |
| Voltage                          |         |            |            |            |            |            |            |            |            |            |            |            |
| Quantity                         |         | N°         |            |            |            |            |            |            |            |            |            |            |

Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Condensing temperature 45°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

**b-NEXT DX** Air Cooled Direct Expansion Air Conditioners (AC fans)

| <b>b-NEXT-OVER</b>               |         | <b>007 P1 S</b> | <b>009 P1 S</b> | <b>011 P1 S</b> | <b>014 P1 S</b> | <b>016 P1 S</b> | <b>020 P1 S</b> | <b>022 P1 S</b> | <b>026 P1 S</b> | <b>032 P1 S</b> | <b>037 P1 S</b> |      |
|----------------------------------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------|
| Frame                            |         | E0              | E0              | E1              | E2              | E2              | E3              | E3              | E3              | E4              | E4              |      |
| Power supply                     | V/ph/Hz | 400/3+N/50      |      |
| <b>PERFORMANCE</b>               |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |      |
| Total cooling capacity gross     | (1)     | kW              | 6,37            | 7,73            | 10,7            | 14,0            | 15,0            | 20,6            | 22,5            | 26,3            | 31,8            | 36,4 |
| Sensible cooling capacity gross  | (1)     | kW              | 6,29            | 7,05            | 10,7            | 14,0            | 15,0            | 20,6            | 22,5            | 25,8            | 31,7            | 34,2 |
| Total power input (Comp.+fans)   | (1)     | kW              | 1,65            | 2,02            | 2,74            | 3,45            | 3,84            | 5,15            | 5,94            | 7,03            | 7,48            | 8,43 |
| EER (Indoor unit)                | (1)     | kW/kW           | 3,86            | 3,83            | 3,91            | 4,06            | 3,91            | 4,00            | 3,79            | 3,74            | 4,25            | 4,32 |
| SHR                              | (2)     |                 | 0,99            | 0,91            | 1,00            | 1,00            | 1,00            | 1,00            | 0,98            | 1,00            | 0,94            |      |
| <b>REFRIGERANT CIRCUIT</b>       |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |      |
| Compressors nr.                  |         | N°              | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |      |
| No. Circuits                     |         | N°              | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |      |
| Refrigerant charge               |         | kg              | 2,30            | 2,30            | 3,20            | 3,40            | 3,40            | 4,00            | 4,00            | 5,70            | 5,70            |      |
| <b>FANS</b>                      |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |      |
| Fans type                        |         |                 | PLUG FAN        | PLUG FAN        | AC RADIAL       | PLUG FAN        |      |
| Quantity                         |         | N°              | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |      |
| Air flow                         | (3)     | m³/h            | 1660            | 1660            | 3120            | 4340            | 4340            | 6650            | 6650            | 8150            | 8150            |      |
| <b>NOISE LEVEL</b>               |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |      |
| Sound Power                      |         | dB(A)           | 56              | 56              | 56              | 66              | 66              | 67              | 67              | 71              | 71              |      |
| Sound Pressure                   | (4)     | dB(A)           | 41              | 41              | 40              | 50              | 50              | 51              | 51              | 54              | 54              |      |
| <b>SIZE AND WEIGHT</b>           |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |      |
| A                                | (3)     | mm              | 655             | 655             | 650             | 785             | 785             | 1085            | 1085            | 1305            | 1305            |      |
| B                                | (3)     | mm              | 445             | 445             | 675             | 675             | 675             | 775             | 775             | 930             | 930             |      |
| H                                | (3)     | mm              | 1680            | 1680            | 1925            | 1925            | 1925            | 1925            | 1925            | 1980            | 1980            |      |
| Weight                           | (3)     | kg              | 160             | 160             | 228             | 260             | 265             | 300             | 305             | 410             | 415             |      |
| <b>COUPLING UNIT EXTERNAL</b>    |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |      |
| Standard remote condenser linked |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |      |
| Voltage                          |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |      |
| Quantity                         |         | N°              |                 |                 |                 |                 |                 |                 |                 |                 |                 |      |

| <b>b-NEXT-OVER</b>               |         | <b>041 P1 S</b> | <b>045 P1 S</b> | <b>039 P2 D</b> | <b>048 P2 D</b> | <b>055 P2 D</b> | <b>062 P2 D</b> | <b>075 P2 D</b> | <b>082 P2 D</b> | <b>092 P2 D</b> | <b>102 P2 D</b> |       |
|----------------------------------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
| Frame                            |         | E4              | E4              | E5              | E5              | E6              | E6              | E7              | E7              | E8              | E8              |       |
| Power supply                     | V/ph/Hz | 400/3+N/50      |       |
| <b>PERFORMANCE</b>               |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Total cooling capacity gross     | (1)     | kW              | 40,9            | 44,8            | 36,9            | 47,7            | 56,5            | 63,2            | 74,7            | 82,0            | 91,1            | 103   |
| Sensible cooling capacity gross  | (1)     | kW              | 39,3            | 41,6            | 35,3            | 44,4            | 53,6            | 58,7            | 74,1            | 78,1            | 85,2            | 91,5  |
| Total power input (Comp.+fans)   | (1)     | kW              | 9,86            | 10,9            | 8,69            | 11,8            | 13,9            | 15,1            | 17,9            | 19,8            | 21,6            | 25,4  |
| EER (Indoor unit)                | (1)     | kW/kW           | 4,15            | 4,11            | 4,25            | 4,04            | 4,06            | 4,19            | 4,17            | 4,14            | 4,22            | 4,06  |
| SHR                              | (2)     |                 | 0,96            | 0,93            | 0,96            | 0,93            | 0,95            | 0,93            | 0,99            | 0,95            | 0,94            | 0,89  |
| <b>REFRIGERANT CIRCUIT</b>       |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Compressors nr.                  |         | N°              | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               | 2               |       |
| No. Circuits                     |         | N°              | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               | 2               |       |
| Refrigerant charge               |         | kg              | 8,60            | 8,60            | 9,00            | 9,00            | 9,80            | 9,80            | 16,2            | 16,2            | 17,4            | 17,4  |
| <b>FANS</b>                      |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Fans type                        |         |                 | PLUG FAN        |       |
| Quantity                         |         | N°              | 1               | 1               | 1               | 1               | 2               | 2               | 2               | 2               | 2               |       |
| Air flow                         | (3)     | m³/h            | 9800            | 9800            | 8450            | 10350           | 15200           | 15200           | 19200           | 19200           | 20350           | 20350 |
| <b>NOISE LEVEL</b>               |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Sound Power                      |         | dB(A)           | 75              | 75              | 71              | 76              | 75              | 75              | 78              | 78              | 80              | 80    |
| Sound Pressure                   | (4)     | dB(A)           | 58              | 58              | 54              | 59              | 58              | 58              | 61              | 61              | 62              | 62    |
| <b>SIZE AND WEIGHT</b>           |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| A                                | (3)     | mm              | 1305            | 1305            | 1630            | 1630            | 1875            | 1875            | 2175            | 2175            | 2499            | 2499  |
| B                                | (3)     | mm              | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930   |
| H                                | (3)     | mm              | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980  |
| Weight                           | (3)     | kg              | 427             | 435             | 520             | 530             | 610             | 610             | 688             | 695             | 785             | 785   |
| <b>COUPLING UNIT EXTERNAL</b>    |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Standard remote condenser linked |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Voltage                          |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Quantity                         |         | N°              |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |

## Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Condensing temperature 45°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.



# NEXT LEGACY

HIGH PRECISION AIR CONDITIONERS, FROM 3 TO 155 kW



WATER COOLED

**b-NEXT DW** Water Cooled Direct Expansion Air Conditioners (AC fans)

| <b>b-NEXT DW UNDER</b>          |           | 007 P1 S   | 009 P1 S   | 011 P1 S   | 014 P1 S   | 016 P1 S   | 020 P1 S   | 022 P1 S   | 026 P1 S   | 032 P1 S   | 037 P1 S   | 041 P1 S   |
|---------------------------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frame                           |           | E1         | E1         | E1         | E2         | E2         | E3         | E3         | E3         | E4L        | E4L        | E4L        |
| Power supply                    | V/ph/Hz   | 400/3+N/50 |
| <b>PERFORMANCE</b>              |           |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross    | (1) kW    | 8,50       | 10,1       | 11,6       | 15,4       | 16,4       | 21,9       | 23,9       | 28,6       | 34,3       | 39,0       | 44,3       |
| Sensible cooling capacity gross | (1) kW    | 7,96       | 9,35       | 10,6       | 14,3       | 15,1       | 21,4       | 23,0       | 26,4       | 32,3       | 35,1       | 40,4       |
| Total power input (Comp.+fans)  | (1) kW/kW | 1,71       | 2,06       | 2,49       | 3,07       | 3,43       | 4,66       | 5,38       | 6,31       | 6,70       | 7,57       | 8,76       |
| EER (Indoor unit)               | (1) kW/kW | 4,97       | 4,90       | 4,66       | 5,02       | 4,78       | 4,70       | 4,44       | 4,53       | 5,12       | 5,15       | 5,06       |
| SHR                             | (2)       | 0,94       | 0,93       | 0,91       | 0,93       | 0,92       | 0,98       | 0,96       | 0,92       | 0,94       | 0,90       | 0,91       |
| <b>PLATE CAPACITOR</b>          |           |            |            |            |            |            |            |            |            |            |            |            |
| Capacitors nr.                  | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Condenser fluid flow            | (1) l/s   | 0,47       | 0,56       | 0,66       | 0,86       | 0,92       | 1,21       | 1,34       | 1,61       | 1,91       | 2,18       | 2,47       |
| Pressure drop                   | (1) kPa   | 25,1       | 34,8       | 27,9       | 22,5       | 25,6       | 22,3       | 26,6       | 19,7       | 27,3       | 34,6       | 27,8       |
| <b>REFRIGERANT CIRCUIT</b>      |           |            |            |            |            |            |            |            |            |            |            |            |
| Compressors nr.                 | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| No. Circuits                    | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Refrigerant charge              | kg        | 3,30       | 3,30       | 3,30       | 3,40       | 3,40       | 4,40       | 4,40       | 4,50       | 6,20       | 6,20       | 9,30       |
| <b>FANS</b>                     |           |            |            |            |            |            |            |            |            |            |            |            |
| Fans type                       |           | AC RADIAL  | AC RADIAL  | AC RADIAL  | PLUG FAN   |
| Quantity                        | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Air flow                        | (3) m³/h  | 3120       | 3120       | 3120       | 4340       | 4340       | 6650       | 6650       | 6650       | 8150       | 8150       | 9800       |
| <b>NOISE LEVEL</b>              |           |            |            |            |            |            |            |            |            |            |            |            |
| Sound Power                     | (4) dB(A) | 68         | 68         | 57         | 65         | 65         | 67         | 67         | 67         | 71         | 71         | 75         |
| Sound Pressure                  | (4) dB(A) | 52         | 52         | 41         | 49         | 49         | 51         | 51         | 51         | 54         | 54         | 58         |
| <b>SIZE AND WEIGHT</b>          |           |            |            |            |            |            |            |            |            |            |            |            |
| A                               | (3) mm    | 650        | 650        | 650        | 785        | 785        | 1085       | 1085       | 1085       | 1630       | 1630       | 1630       |
| B                               | (3) mm    | 675        | 675        | 675        | 675        | 675        | 775        | 775        | 775        | 930        | 930        | 930        |
| H                               | (3) mm    | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       |
| Weight                          | (3) kg    | 245        | 247        | 250        | 285        | 290        | 340        | 345        | 345        | 510        | 510        | 515        |

| <b>b-NEXT DW UNDER</b>          |           | 045 P1 S   | 039 P2 D   | 048 P2 D   | 055 P2 D   | 062 P2 D   | 075 P2 D   | 082 P2 D   | 092 P2 D   | 102 P2 D   | 117 P4 D   | 146 P4 D   |
|---------------------------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frame                           |           | E4L        | E5L        | E5L        | E6L        | E6L        | E7L        | E7L        | E8L        | E8L        | E9L        | E9L        |
| Power supply                    | V/ph/Hz   | 400/3+N/50 |
| <b>PERFORMANCE</b>              |           |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross    | (1) kW    | 47,3       | 39,7       | 49,3       | 59,3       | 66,4       | 80,5       | 88,4       | 98,3       | 110        | 125        | 155        |
| Sensible cooling capacity gross | (1) kW    | 42,8       | 35,9       | 42,2       | 56,3       | 60,9       | 74,7       | 80,0       | 88,4       | 94,9       | 120        | 139        |
| Total power input (Comp.+fans)  | (1) kW/kW | 9,70       | 7,73       | 10,4       | 12,4       | 13,6       | 15,9       | 17,7       | 19,4       | 22,6       | 27,0       | 33,9       |
| EER (Indoor unit)               | (1) kW/kW | 4,88       | 5,14       | 4,74       | 4,78       | 4,88       | 5,06       | 4,99       | 5,07       | 4,87       | 4,63       | 4,57       |
| SHR                             | (2)       | 0,90       | 0,90       | 0,86       | 0,95       | 0,92       | 0,93       | 0,90       | 0,90       | 0,86       | 0,96       | 0,90       |
| <b>PLATE CAPACITOR</b>          |           |            |            |            |            |            |            |            |            |            |            |            |
| Capacitors nr.                  | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Condenser fluid flow            | (1) l/s   | 2,66       | 2,22       | 2,81       | 3,32       | 3,72       | 4,47       | 4,94       | 5,50       | 6,22       | 7,08       | 8,82       |
| Pressure drop                   | (1) kPa   | 31,7       | 27,4       | 42,0       | 23,3       | 28,5       | 24,1       | 28,9       | 22,9       | 28,9       | 33,6       | 50,5       |
| <b>REFRIGERANT CIRCUIT</b>      |           |            |            |            |            |            |            |            |            |            |            |            |
| Compressors nr.                 | N°        | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 4          | 4          |
| No. Circuits                    | N°        | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          |
| Refrigerant charge              | kg        | 9,30       | 9,70       | 9,70       | 9,80       | 9,80       | 16,2       | 16,2       | 17,4       | 17,4       | 21,6       | 21,6       |
| <b>FANS</b>                     |           |            |            |            |            |            |            |            |            |            |            |            |
| Fans type                       |           | PLUG FAN   |
| Quantity                        | N°        | 1          | 1          | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 3          | 3          |
| Air flow                        | (3) m³/h  | 9800       | 8450       | 8798       | 15200      | 15200      | 19200      | 19200      | 20350      | 20350      | 29400      | 29400      |
| <b>NOISE LEVEL</b>              |           |            |            |            |            |            |            |            |            |            |            |            |
| Sound Power                     | (4) dB(A) | 75         | 72         | 72         | 73         | 73         | 73         | 78         | 80         | 80         | 81         | 81         |
| Sound Pressure                  | (4) dB(A) | 58         | 55         | 55         | 56         | 56         | 55         | 60         | 62         | 62         | 63         | 63         |
| <b>SIZE AND WEIGHT</b>          |           |            |            |            |            |            |            |            |            |            |            |            |
| A                               | (3) mm    | 1630       | 1955       | 1955       | 2198       | 2198       | 2499       | 2499       | 2899       | 2899       | 3299       | 3299       |
| B                               | (3) mm    | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        |
| H                               | (3) mm    | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       |
| Weight                          | (3) kg    | 515        | 645        | 645        | 710        | 710        | 775        | 775        | 990        | 990        | 1140       | 1190       |

Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

| <b>b-NEXT DW-OVER</b>           |         | <b>007 P1 S</b> | <b>009 P1 S</b> | <b>011 P1 S</b> | <b>014 P1 S</b> | <b>016 P1 S</b> | <b>020 P1 S</b> | <b>022 P1 S</b> | <b>026 P1 S</b> | <b>032 P1 S</b> | <b>037 P1 S</b> |       |
|---------------------------------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
| Frame                           |         | E1              | E1              | E1              | E2              | E2              | E3              | E3              | E3              | E4L             | E4L             |       |
| Power supply                    | V/ph/Hz | 400/3+N/50      |       |
| <b>PERFORMANCE</b>              |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Total cooling capacity gross    | (1)     | kW              | 8,50            | 10,1            | 11,6            | 15,4            | 16,4            | 21,9            | 23,9            | 28,6            | 34,3            | 39,0  |
| Sensible cooling capacity gross | (1)     | kW              | 7,96            | 9,35            | 10,6            | 14,3            | 15,1            | 21,4            | 23,0            | 26,4            | 32,3            | 35,1  |
| Total power input (Comp.+fans)  | (1)     | kW              | 1,65            | 2,00            | 2,43            | 3,07            | 3,43            | 4,66            | 5,38            | 6,31            | 6,70            | 7,57  |
| EER (Indoor unit)               | (1)     | kW/kW           | 5,15            | 5,05            | 4,77            | 5,02            | 4,78            | 4,70            | 4,44            | 4,53            | 5,12            | 5,15  |
| SHR                             | (2)     |                 | 0,94            | 0,93            | 0,91            | 0,93            | 0,92            | 0,98            | 0,96            | 0,92            | 0,94            | 0,90  |
| <b>PLATE CAPACITOR</b>          |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Capacitors nr.                  |         | Nº              | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |       |
| Condenser fluid flow            | (1)     | l/s             | 0,47            | 0,56            | 0,66            | 0,86            | 0,92            | 1,21            | 1,34            | 1,61            | 1,91            | 2,18  |
| Pressure drop                   | (1)     | kPa             | 25,0            | 34,5            | 27,9            | 22,5            | 25,6            | 22,3            | 26,6            | 19,7            | 27,3            | 34,6  |
| <b>REFRIGERANT CIRCUIT</b>      |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Compressors nr.                 |         | Nº              | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |       |
| No. Circuits                    |         | Nº              | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |       |
| Refrigerant charge              |         | kg              | 3,30            | 3,30            | 3,20            | 3,60            | 3,60            | 4,40            | 4,40            | 4,50            | 6,20            | 6,20  |
| <b>FANS</b>                     |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Fans type                       |         |                 | AC RADIAL       | AC RADIAL       | AC RADIAL       | PLUG FAN        |       |
| Quantity                        |         | Nº              | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |       |
| Air flow                        | (3)     | m³/h            | 3120            | 3120            | 3120            | 4340            | 4340            | 6650            | 6650            | 8150            | 8150            |       |
| <b>NOISE LEVEL</b>              |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Sound Power                     |         | dB(A)           | 69              | 69              | 56              | 66              | 66              | 67              | 67              | 71              | 71              |       |
| Sound Pressure                  | (4)     | dB(A)           | 53              | 53              | 40              | 50              | 50              | 51              | 51              | 54              | 54              |       |
| <b>SIZE AND WEIGHT</b>          |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| A                               | (3)     | mm              | 650             | 650             | 650             | 785             | 785             | 1085            | 1085            | 1085            | 1630            | 1630  |
| B                               | (3)     | mm              | 675             | 675             | 675             | 675             | 675             | 775             | 775             | 775             | 930             | 930   |
| H                               | (3)     | mm              | 1925            | 1925            | 1925            | 1925            | 1925            | 1925            | 1925            | 1925            | 1980            | 1980  |
| Weight                          | (3)     | kg              | 235             | 237             | 240             | 275             | 280             | 320             | 325             | 500             | 500             | 500   |
| <b>b-NEXT DW-OVER</b>           |         | <b>041 P1 S</b> | <b>045 P1 S</b> | <b>039 P2 D</b> | <b>048 P2 D</b> | <b>055 P2 D</b> | <b>062 P2 D</b> | <b>075 P2 D</b> | <b>082 P2 D</b> | <b>092 P2 D</b> | <b>102 P2 D</b> |       |
| Frame                           |         | E4L             | E4L             | E5L             | E5L             | E6L             | E6L             | E7L             | E7L             | E8L             | E8L             |       |
| Power supply                    | V/ph/Hz | 400/3+N/50      |       |
| <b>PERFORMANCE</b>              |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Total cooling capacity gross    | (1)     | kW              | 44,3            | 47,3            | 39,7            | 49,3            | 59,3            | 66,4            | 80,5            | 88,4            | 98,3            | 110   |
| Sensible cooling capacity gross | (1)     | kW              | 40,4            | 42,8            | 35,9            | 42,2            | 56,3            | 60,9            | 74,7            | 80,0            | 88,4            | 94,9  |
| Total power input (Comp.+fans)  | (1)     | kW              | 8,76            | 9,70            | 7,73            | 10,4            | 12,4            | 13,6            | 15,9            | 17,7            | 19,4            | 22,6  |
| EER (Indoor unit)               | (1)     | kW/kW           | 5,06            | 4,88            | 5,14            | 4,78            | 4,78            | 4,88            | 5,06            | 4,99            | 5,07            | 4,87  |
| SHR                             | (2)     |                 | 0,91            | 0,90            | 0,90            | 0,86            | 0,95            | 0,92            | 0,93            | 0,90            | 0,90            | 0,86  |
| <b>PLATE CAPACITOR</b>          |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Capacitors nr.                  |         | Nº              | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |       |
| Condenser fluid flow            | (1)     | l/s             | 2,47            | 2,66            | 2,22            | 2,81            | 3,32            | 3,72            | 4,47            | 4,94            | 5,50            | 6,22  |
| Pressure drop                   | (1)     | kPa             | 27,8            | 31,7            | 27,4            | 42,0            | 23,3            | 28,5            | 24,1            | 28,9            | 22,9            | 28,9  |
| <b>REFRIGERANT CIRCUIT</b>      |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Compressors nr.                 |         | Nº              | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               | 4               |       |
| No. Circuits                    |         | Nº              | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               | 2               |       |
| Refrigerant charge              |         | kg              | 9,30            | 9,30            | 9,70            | 9,70            | 9,80            | 9,80            | 16,2            | 16,2            | 17,4            | 17,4  |
| <b>FANS</b>                     |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Fans type                       |         |                 | PLUG FAN        |       |
| Quantity                        |         | Nº              | 1               | 1               | 1               | 1               | 2               | 2               | 2               | 2               | 2               |       |
| Air flow                        | (3)     | m³/h            | 9800            | 9800            | 8450            | 8798            | 15200           | 15200           | 19200           | 19200           | 20350           | 20350 |
| <b>NOISE LEVEL</b>              |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| Sound Power                     |         | dB(A)           | 75              | 75              | 71              | 72              | 75              | 75              | 78              | 78              | 80              | 80    |
| Sound Pressure                  | (4)     | dB(A)           | 58              | 58              | 54              | 55              | 58              | 58              | 60              | 60              | 62              | 62    |
| <b>SIZE AND WEIGHT</b>          |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |       |
| A                               | (3)     | mm              | 1630            | 1630            | 1955            | 1955            | 2198            | 2198            | 2499            | 2499            | 2899            | 2899  |
| B                               | (3)     | mm              | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930   |
| H                               | (3)     | mm              | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980  |
| Weight                          | (3)     | kg              | 505             | 505             | 635             | 635             | 690             | 690             | 725             | 725             | 930             | 930   |

**Notes:**

1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.



# NEXT LEGACY

HIGH PRECISION AIR CONDITIONERS, FROM 3 TO 155 kW

AIR COOLED

**t-NEXT DX Air Cooled Direct Expansion Air Conditioners (EC fans)**

| <b>t-NEXT DX-OVER</b>            |           | <b>007 P1 S</b> | <b>009 P1 S</b> | <b>011 P1 S</b> | <b>014 P1 S</b> | <b>016 P1 S</b> | <b>020 P1 S</b> | <b>022 P1 S</b> | <b>026 P1 S</b> | <b>032 P1 S</b> | <b>037 P1 S</b> |
|----------------------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Frame                            |           | E0              | E0              | E1              | E2              | E2              | E3              | E3              | E3              | E4              | E4              |
| Power supply                     | V/ph/Hz   | 400/3+N/50      |
| <b>PERFORMANCE</b>               |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross     | (1) kW    | 6,59            | 7,73            | 10,3            | 13,8            | 16,0            | 20,3            | 22,1            | 26,2            | 32,5            | 37,6            |
| Sensible cooling capacity gross  | (1) kW    | 6,29            | 7,05            | 10,2            | 13,8            | 14,8            | 20,3            | 22,1            | 25,3            | 32,5            | 37,6            |
| Total power input (Comp.+fans)   | (1) kW    | 1,62            | 1,99            | 2,57            | 3,26            | 3,71            | 4,52            | 5,47            | 6,71            | 7,59            | 9,22            |
| EER (Indoor unit)                | (1) kW/kW | 4,07            | 3,88            | 4,01            | 4,23            | 4,31            | 4,49            | 4,04            | 3,90            | 4,28            | 4,08            |
| SHR                              | (2)       | 0,95            | 0,91            | 0,99            | 1,00            | 0,92            | 1,00            | 1,00            | 0,97            | 1,00            | 1,00            |
| <b>REFRIGERANT CIRCUIT</b>       |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                  | N°        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| No. Circuits                     | N°        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Refrigerant charge               | kg        | 3,20            | 3,20            | 3,20            | 3,40            | 3,40            | 4,00            | 4,00            | 4,00            | 5,70            | 5,70            |
| <b>FANS</b>                      |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Fans type                        |           | EC FAN          |
| Quantity                         | N°        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Air flow                         | (3) m³/h  | 1660            | 1660            | 2800            | 4000            | 4200            | 5700            | 6100            | 6400            | 8700            | 10000           |
| <b>NOISE LEVEL</b>               |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Sound Power                      | (4) dB(A) | 58              | 58              | 58              | 63              | 64              | 63              | 65              | 64              | 71              | 74              |
| Sound Pressure                   | (4) dB(A) | 43              | 43              | 42              | 47              | 48              | 47              | 49              | 48              | 54              | 57              |
| <b>SIZE AND WEIGHT</b>           |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| A                                | (3) mm    | 655             | 655             | 650             | 785             | 785             | 1085            | 1085            | 1085            | 1305            | 1305            |
| B                                | (3) mm    | 445             | 445             | 675             | 675             | 675             | 775             | 775             | 775             | 930             | 930             |
| H                                | (3) mm    | 1680            | 1680            | 1925            | 1925            | 1925            | 1925            | 1925            | 1925            | 1980            | 1980            |
| Weight                           | (3) kg    | 160             | 160             | 228             | 260             | 265             | 300             | 305             | 305             | 410             | 415             |
| <b>COUPLING UNIT EXTERNAL</b>    |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Standard remote condenser linked |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Voltage                          |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Quantity                         | N°        |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |

| <b>t-NEXT DX-OVER</b>            |           | <b>041 P1 S</b> | <b>045 P1 S</b> | <b>039 P2 D</b> | <b>048 P2 D</b> | <b>055 P2 D</b> | <b>062 P2 D</b> | <b>075 P2 D</b> | <b>082 P2 D</b> | <b>092 P2 D</b> | <b>102 P2 D</b> |
|----------------------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Frame                            |           | E4              | E4              | E5              | E5              | E6              | E6              | E7              | E7              | E8              | E8              |
| Power supply                     | V/ph/Hz   | 400/3+N/50      |
| <b>PERFORMANCE</b>               |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross     | (1) kW    | 41,4            | 45,4            | 38,1            | 48,6            | 55,1            | 61,9            | 75,4            | 82,5            | 92,0            | 104             |
| Sensible cooling capacity gross  | (1) kW    | 41,2            | 43,4            | 38,1            | 47,4            | 55,1            | 60,6            | 75,4            | 79,5            | 88,1            | 94,9            |
| Total power input (Comp.+fans)   | (1) kW    | 10,1            | 11,2            | 9,19            | 12,4            | 13,5            | 15,0            | 17,8            | 19,7            | 22,0            | 25,7            |
| EER (Indoor unit)                | (1) kW/kW | 4,10            | 4,05            | 4,15            | 3,92            | 4,08            | 4,13            | 4,24            | 4,19            | 4,18            | 4,05            |
| SHR                              | (2)       | 1,00            | 0,96            | 1,00            | 0,98            | 1,00            | 0,98            | 1,00            | 0,96            | 0,96            | 0,91            |
| <b>REFRIGERANT CIRCUIT</b>       |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                  | N°        | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               | 2               | 2               |
| No. Circuits                     | N°        | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               | 2               | 2               |
| Refrigerant charge               | kg        | 8,60            | 8,60            | 9,00            | 9,00            | 9,80            | 9,80            | 16,2            | 16,2            | 17,4            | 17,4            |
| <b>FANS</b>                      |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Fans type                        |           | EC FAN          |
| Quantity                         | N°        | 1               | 1               | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               |
| Air flow                         | (3) m³/h  | 10800           | 10800           | 10000           | 12000           | 15200           | 15600           | 20000           | 20000           | 22000           | 22000           |
| <b>NOISE LEVEL</b>               |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Sound Power                      | (4) dB(A) | 74              | 74              | 75              | 76              | 71              | 73              | 75              | 75              | 78              | 78              |
| Sound Pressure                   | (4) dB(A) | 57              | 57              | 58              | 59              | 54              | 56              | 58              | 58              | 60              | 60              |
| <b>SIZE AND WEIGHT</b>           |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| A                                | (3) mm    | 1305            | 1305            | 1630            | 1630            | 1875            | 1875            | 2175            | 2175            | 2499            | 2499            |
| B                                | (3) mm    | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             |
| H                                | (3) mm    | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            |
| Weight                           | (3) kg    | 427             | 435             | 520             | 530             | 610             | 630             | 688             | 695             | 785             | 785             |
| <b>COUPLING UNIT EXTERNAL</b>    |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Standard remote condenser linked |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Voltage                          |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Quantity                         | N°        |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |

**Notes:**

1 Indoor conditions (in) 26°C - R.H. 40%; Condensing temperature 45°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

| t-NEXT DX-UNDER                  |           | 007 P1 S   | 009 P1 S   | 011 P1 S   | 014 P1 S   | 016 P1 S   | 020 P1 S   | 022 P1 S   | 026 P1 S   | 032 P1 S   | 037 P1 S   | 041 P1 S   |
|----------------------------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frame                            | V/ph/Hz   | E0         | E0         | E1         | E2         | E2         | E3         | E3         | E3         | E4         | E4         | E4         |
| Power supply                     |           | 400/3+N/50 |
| <b>PERFORMANCE</b>               |           |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross     | (1) kW    | 6,59       | 7,73       | 10,3       | 13,8       | 16,0       | 20,3       | 22,1       | 26,2       | 32,5       | 37,6       | 41,4       |
| Sensible cooling capacity gross  | (1) kW    | 6,29       | 7,05       | 10,2       | 13,8       | 14,8       | 20,3       | 22,1       | 25,3       | 32,5       | 37,6       | 41,2       |
| Total power input (Comp.+fans)   | (1) kW    | 1,62       | 1,99       | 2,57       | 3,26       | 3,71       | 4,52       | 5,47       | 6,71       | 7,59       | 9,22       | 10,1       |
| EER (Indoor unit)                | (1) kW/kW | 4,07       | 3,88       | 4,01       | 4,23       | 4,31       | 4,49       | 4,04       | 3,90       | 4,28       | 4,08       | 4,10       |
| SHR                              | (2)       | 0,95       | 0,91       | 0,99       | 1,00       | 0,92       | 1,00       | 1,00       | 0,97       | 1,00       | 1,00       | 1,00       |
| <b>REFRIGERANT CIRCUIT</b>       |           |            |            |            |            |            |            |            |            |            |            |            |
| Compressors nr.                  | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| No. Circuits                     | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Refrigerant charge               | kg        | 3,20       | 3,20       | 3,20       | 3,40       | 3,40       | 4,40       | 4,40       | 4,00       | 5,70       | 5,70       | 8,60       |
| <b>FANS</b>                      |           |            |            |            |            |            |            |            |            |            |            |            |
| Fans type                        |           | EC FAN     |
| Quantity                         | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Air flow                         | (3) m³/h  | 1660       | 1660       | 2800       | 4000       | 4200       | 5700       | 6100       | 6400       | 8700       | 10000      | 10800      |
| <b>NOISE LEVEL</b>               |           |            |            |            |            |            |            |            |            |            |            |            |
| Sound Power                      | (4) dB(A) | 58         | 58         | 58         | 64         | 65         | 64         | 66         | 66         | 72         | 75         | 74         |
| Sound Pressure                   | (4) dB(A) | 43         | 43         | 42         | 48         | 49         | 48         | 50         | 50         | 55         | 58         | 57         |
| <b>SIZE AND WEIGHT</b>           |           |            |            |            |            |            |            |            |            |            |            |            |
| A                                | (3) mm    | 655        | 655        | 650        | 785        | 785        | 1085       | 1085       | 1085       | 1305       | 1305       | 1305       |
| B                                | (3) mm    | 445        | 445        | 675        | 675        | 675        | 775        | 775        | 775        | 930        | 930        | 930        |
| H                                | (3) mm    | 1680       | 1680       | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       |
| Weight                           | (3) kg    | 160        | 160        | 238        | 270        | 275        | 320        | 325        | 325        | 420        | 425        | 437        |
| <b>COUPLING UNIT EXTERNAL</b>    |           |            |            |            |            |            |            |            |            |            |            |            |
| Standard remote condenser linked |           |            |            |            |            |            |            |            |            |            |            |            |
| Voltage                          |           |            |            |            |            |            |            |            |            |            |            |            |
| Quantity                         | N°        |            |            |            |            |            |            |            |            |            |            |            |

| t-NEXT DX-UNDER                  |           | 045 P1 S   | 039 P2 D   | 048 P2 D   | 055 P2 D   | 062 P2 D   | 075 P2 D   | 082 P2 D   | 092 P2 D   | 102 P2 D   | 117 P4 D   | 146 P4 D   |
|----------------------------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frame                            | V/ph/Hz   | E4         | E5         | E5         | E6         | E6         | E7         | E7         | E8         | E8         | E9         | E9         |
| Power supply                     |           | 400/3+N/50 |
| <b>PERFORMANCE</b>               |           |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross     | (1) kW    | 45,4       | 38,1       | 48,6       | 55,1       | 61,9       | 75,4       | 82,5       | 92,0       | 104        | 121        | 149        |
| Sensible cooling capacity gross  | (1) kW    | 43,4       | 38,1       | 47,4       | 55,1       | 60,6       | 75,4       | 79,5       | 88,1       | 94,9       | 119        | 139        |
| Total power input (Comp.+fans)   | (1) kW    | 11,2       | 9,19       | 12,4       | 13,5       | 15,0       | 17,8       | 19,7       | 22,0       | 25,7       | 30,4       | 38,0       |
| EER (Indoor unit)                | (1) kW/kW | 4,05       | 4,15       | 3,92       | 4,08       | 4,13       | 4,24       | 4,19       | 4,18       | 4,05       | 3,98       | 3,92       |
| SHR                              | (2)       | 0,96       | 1,00       | 0,98       | 1,00       | 0,98       | 1,00       | 0,96       | 0,96       | 0,91       | 0,98       | 0,93       |
| <b>REFRIGERANT CIRCUIT</b>       |           |            |            |            |            |            |            |            |            |            |            |            |
| Compressors nr.                  | N°        | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 4          | 4          |
| No. Circuits                     | N°        | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          |
| Refrigerant charge               | kg        | 8,60       | 9,00       | 9,00       | 9,80       | 9,80       | 16,2       | 16,2       | 17,4       | 17,4       | 21,6       | 21,6       |
| <b>FANS</b>                      |           |            |            |            |            |            |            |            |            |            |            |            |
| Fans type                        |           | EC FAN     |
| Quantity                         | N°        | 1          | 1          | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 3          | 3          |
| Air flow                         | (3) m³/h  | 10800      | 10000      | 12000      | 15000      | 15600      | 20000      | 20000      | 22000      | 22000      | 32000      | 32000      |
| <b>NOISE LEVEL</b>               |           |            |            |            |            |            |            |            |            |            |            |            |
| Sound Power                      | (4) dB(A) | 74         | 75         | 77         | 72         | 73         | 75         | 75         | 79         | 79         | 80         | 80         |
| Sound Pressure                   | (4) dB(A) | 57         | 58         | 60         | 55         | 56         | 58         | 58         | 61         | 61         | 62         | 62         |
| <b>SIZE AND WEIGHT</b>           |           |            |            |            |            |            |            |            |            |            |            |            |
| A                                | (3) mm    | 1305       | 1630       | 1630       | 1875       | 1875       | 2175       | 2175       | 2499       | 2499       | 2899       | 2899       |
| B                                | (3) mm    | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        |
| H                                | (3) mm    | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       |
| Weight                           | (3) kg    | 445        | 530        | 540        | 620        | 640        | 745        | 750        | 845        | 845        | 1020       | 1080       |
| <b>COUPLING UNIT EXTERNAL</b>    |           |            |            |            |            |            |            |            |            |            |            |            |
| Standard remote condenser linked |           |            |            |            |            |            |            |            |            |            |            |            |
| Voltage                          |           |            |            |            |            |            |            |            |            |            |            |            |
| Quantity                         | N°        |            |            |            |            |            |            |            |            |            |            |            |

**Notes:**

1 Indoor conditions (in) 26°C - R.H. 40%; Condensing temperature 45°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.



# NEXT LEGACY

HIGH PRECISION AIR CONDITIONERS, FROM 3 TO 155 kW

WATER COOLED

**t-NEXT DW Water Cooled Direct Expansion Air Conditioners (EC fans)**

| <b>t-NEXT DW-OVER</b>           |           | <b>007 P1 S</b> | <b>009 P1 S</b> | <b>011 P1 S</b> | <b>014 P1 S</b> | <b>016 P1 S</b> | <b>020 P1 S</b> | <b>022 P1 S</b> | <b>026 P1 S</b> | <b>032 P1 S</b> | <b>037 P1 S</b> |
|---------------------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Frame                           |           | E1              | E1              | E1              | E2              | E2              | E3              | E3              | E3              | E4L             | E4L             |
| Power supply                    | V/ph/Hz   | 400/3+N/50      |
| <b>PERFORMANCE</b>              |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross    | (1) kW    | 7,89            | 9,39            | 11,0            | 14,5            | 15,5            | 21,2            | 23,0            | 27,8            | 34,4            | 39,5            |
| Sensible cooling capacity gross | (1) kW    | 7,89            | 9,39            | 10,5            | 14,5            | 15,5            | 21,2            | 23,0            | 26,5            | 34,4            | 39,5            |
| Total power input (Comp.+fans)  | (1) kW    | 1,42            | 1,77            | 2,28            | 2,87            | 3,30            | 4,00            | 4,86            | 5,97            | 6,71            | 8,20            |
| EER (Indoor unit)               | (1) kW/kW | 5,56            | 5,31            | 4,82            | 5,05            | 4,70            | 5,30            | 4,73            | 4,66            | 5,13            | 4,82            |
| SHR                             | (2)       | 1,00            | 1,00            | 0,95            | 1,00            | 1,00            | 1,00            | 1,00            | 0,95            | 1,00            | 1,00            |
| <b>PLATE CAPACITOR</b>          |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                 | N°        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Condenser fluid flow            | (1) l/s   | 0,44            | 0,53            | 0,62            | 0,81            | 0,88            | 1,17            | 1,29            | 1,57            | 1,91            | 2,20            |
| Pressure drop                   | (1) kPa   | 22,1            | 30,9            | 25,5            | 20,4            | 23,4            | 20,8            | 24,6            | 18,9            | 27,3            | 35,4            |
| <b>REFRIGERANT CIRCUIT</b>      |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                 | N°        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| No. Circuits                    | N°        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Refrigerant charge              | kg        | 3,30            | 3,30            | 3,30            | 3,60            | 3,60            | 4,40            | 4,40            | 4,50            | 5,70            | 5,70            |
| <b>FANS</b>                     |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Fans type                       |           | EC FAN          |
| Quantity                        | N°        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Air flow                        | (3) m³/h  | 2500            | 2700            | 2800            | 4000            | 4200            | 5700            | 6100            | 6400            | 8700            | 10000           |
| <b>NOISE LEVEL</b>              |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Sound Power                     | dB(A)     | 60              | 62              | 58              | 63              | 64              | 63              | 65              | 64              | 71              | 74              |
| Sound Pressure                  | (4) dB(A) | 44              | 46              | 42              | 47              | 48              | 47              | 49              | 48              | 54              | 57              |
| <b>SIZE AND WEIGHT</b>          |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| A                               | (3) mm    | 650             | 650             | 650             | 785             | 785             | 1085            | 1085            | 1085            | 1630            | 1630            |
| B                               | (3) mm    | 675             | 675             | 675             | 675             | 675             | 775             | 775             | 775             | 930             | 930             |
| H                               | (3) mm    | 1925            | 1925            | 1925            | 1925            | 1925            | 1925            | 1925            | 1925            | 1980            | 1980            |
| Weight                          | (3) kg    | 235             | 237             | 240             | 275             | 280             | 320             | 325             | 325             | 500             | 500             |

| <b>t-NEXT DW-OVER</b>           |           | <b>041 P1 S</b> | <b>045 P1 S</b> | <b>039 P2 D</b> | <b>048 P2 D</b> | <b>055 P2 D</b> | <b>062 P2 D</b> | <b>075 P2 D</b> | <b>082 P2 D</b> | <b>092 P2 D</b> | <b>102 P2 D</b> |
|---------------------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Frame                           |           | E4L             | E4L             | E5L             | E5L             | E6L             | E6L             | E7L             | E7L             | E8L             | E8L             |
| Power supply                    | V/ph/Hz   | 400/3+N/50      |
| <b>PERFORMANCE</b>              |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross    | (1) kW    | 44,1            | 48,0            | 39,8            | 50,3            | 57,7            | 65,2            | 79,4            | 87,2            | 97,5            | 109             |
| Sensible cooling capacity gross | (1) kW    | 42,6            | 44,8            | 39,2            | 46,0            | 57,5            | 62,5            | 77,7            | 82,1            | 91,0            | 97,2            |
| Total power input (Comp.+fans)  | (1) kW    | 8,85            | 9,87            | 8,23            | 11,2            | 12,0            | 13,3            | 15,7            | 17,5            | 19,5            | 22,8            |
| EER (Indoor unit)               | (1) kW/kW | 4,98            | 4,86            | 4,84            | 4,49            | 4,81            | 4,90            | 5,06            | 4,98            | 5,00            | 4,78            |
| SHR                             | (2)       | 0,97            | 0,93            | 0,98            | 0,91            | 1,00            | 0,96            | 0,98            | 0,94            | 0,93            | 0,89            |
| <b>PLATE CAPACITOR</b>          |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                 | N°        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Condenser fluid flow            | (1) l/s   | 2,46            | 2,70            | 2,23            | 2,86            | 3,25            | 3,66            | 4,41            | 4,88            | 5,46            | 6,18            |
| Pressure drop                   | (1) kPa   | 27,5            | 32,5            | 27,5            | 43,7            | 22,1            | 27,6            | 23,5            | 28,2            | 22,6            | 28,5            |
| <b>REFRIGERANT CIRCUIT</b>      |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                 | N°        | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               | 2               | 2               |
| No. Circuits                    | N°        | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               | 2               | 2               |
| Refrigerant charge              | kg        | 8,60            | 8,60            | 9,00            | 9,00            | 9,80            | 9,80            | 16,2            | 16,2            | 17,4            | 17,4            |
| <b>FANS</b>                     |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Fans type                       |           | EC FAN          |
| Quantity                        | N°        | 1               | 1               | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               |
| Air flow                        | (3) m³/h  | 10800           | 10800           | 10000           | 12000           | 15000           | 15600           | 20000           | 20000           | 22000           | 22000           |
| <b>NOISE LEVEL</b>              |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Sound Power                     | dB(A)     | 75              | 75              | 75              | 77              | 71              | 73              | 75              | 75              | 79              | 79              |
| Sound Pressure                  | (4) dB(A) | 58              | 58              | 58              | 60              | 54              | 56              | 57              | 57              | 61              | 61              |
| <b>SIZE AND WEIGHT</b>          |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| A                               | (3) mm    | 1630            | 1630            | 1955            | 1955            | 2198            | 2198            | 2499            | 2499            | 2899            | 2899            |
| B                               | (3) mm    | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             |
| H                               | (3) mm    | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            |
| Weight                          | (3) kg    | 505             | 505             | 635             | 635             | 690             | 725             | 725             | 725             | 930             | 930             |

Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

| t-NEXT DW-UNDER                 |           | 007 P1 S   | 009 P1 S   | 011 P1 S   | 014 P1 S   | 016 P1 S   | 020 P1 S   | 022 P1 S   | 026 P1 S   | 032 P1 S   | 037 P1 S   | 041 P1 S   |
|---------------------------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frame                           |           | E1         | E1         | E1         | E2         | E2         | E3         | E3         | E3         | E4L        | E4L        | E4L        |
| Power supply                    | V/ph/Hz   | 400/3+N/50 |
| <b>PERFORMANCE</b>              |           |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross    | (1) kW    | 7,89       | 9,39       | 11,0       | 14,5       | 16,3       | 21,2       | 23,0       | 27,8       | 34,4       | 39,5       | 44,1       |
| Sensible cooling capacity gross | (1) kW    | 7,89       | 9,39       | 10,5       | 14,5       | 14,8       | 21,2       | 23,0       | 26,5       | 34,4       | 39,5       | 42,6       |
| Total power input (Comp.+fans)  | (1) kW    | 1,42       | 1,77       | 2,28       | 2,87       | 3,31       | 4,00       | 4,86       | 5,97       | 6,71       | 8,20       | 8,85       |
| EER (Indoor unit)               | (1) kW/kW | 5,56       | 5,31       | 4,82       | 5,05       | 4,92       | 5,30       | 4,73       | 4,66       | 5,13       | 4,82       | 4,98       |
| SHR                             | (2)       | 1,00       | 1,00       | 0,95       | 1,00       | 0,91       | 1,00       | 1,00       | 0,94       | 1,00       | 1,00       | 0,97       |
| <b>PLATE CAPACITOR</b>          |           |            |            |            |            |            |            |            |            |            |            |            |
| Capacitors nr,                  | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Condenser fluid flow            | (1) l/s   | 0,44       | 0,53       | 0,62       | 0,81       | 0,91       | 1,17       | 1,29       | 1,57       | 1,91       | 2,20       | 2,46       |
| Pressure drop                   | (1) kPa   | 22,1       | 30,9       | 25,5       | 20,4       | 25,4       | 20,8       | 24,6       | 18,9       | 27,3       | 35,4       | 27,5       |
| <b>REFRIGERANT CIRCUIT</b>      |           |            |            |            |            |            |            |            |            |            |            |            |
| Compressors nr,                 | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| No, Circuits                    | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Refrigerant charge              | kg        | 3,30       | 3,30       | 3,30       | 3,60       | 3,60       | 4,40       | 4,40       | 4,50       | 6,20       | 6,20       | 9,30       |
| <b>FANS</b>                     |           |            |            |            |            |            |            |            |            |            |            |            |
| Fans type                       | EC FAN    | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     |
| Quantity                        | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Air flow                        | (3) m³/h  | 2500       | 2700       | 2800       | 4000       | 4200       | 5700       | 6100       | 6400       | 8700       | 10000      | 10800      |
| <b>NOISE LEVEL</b>              |           |            |            |            |            |            |            |            |            |            |            |            |
| Sound Power                     | dB(A)     | 60         | 62         | 58         | 64         | 65         | 64         | 66         | 66         | 72         | 75         | 75         |
| Sound Pressure                  | (4) dB(A) | 44         | 46         | 42         | 48         | 49         | 48         | 50         | 50         | 55         | 58         | 58         |
| <b>SIZE AND WEIGHT</b>          |           |            |            |            |            |            |            |            |            |            |            |            |
| A                               | (3) mm    | 650        | 650        | 650        | 785        | 785        | 1085       | 1085       | 1085       | 1630       | 1630       | 1630       |
| B                               | (3) mm    | 675        | 675        | 675        | 675        | 675        | 775        | 775        | 775        | 930        | 930        | 930        |
| H                               | (3) mm    | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       |
| Weight                          | (3) kg    | 245        | 247        | 250        | 285        | 290        | 340        | 345        | 345        | 420        | 425        | 437        |
| t-NEXT DW-UNDER                 |           | 045 P1 S   | 039 P2 D   | 048 P2 D   | 055 P2 D   | 062 P2 D   | 075 P2 D   | 082 P2 D   | 092 P2 D   | 102 P2 D   | 117 P4 D   | 146 P4 D   |
| Frame                           |           | E4L        | E5L        | E5L        | E6L        | E6L        | E7L        | E7L        | E8L        | E8L        | E9L        | E9L        |
| Power supply                    | V/ph/Hz   | 400/3+N/50 |
| <b>PERFORMANCE</b>              |           |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross    | (1) kW    | 48,0       | 39,8       | 50,3       | 57,7       | 65,2       | 79,4       | 87,2       | 97,5       | 109        | 126        | 156        |
| Sensible cooling capacity gross | (1) kW    | 44,8       | 39,2       | 46,0       | 57,5       | 62,5       | 77,7       | 82,1       | 91,0       | 97,2       | 126        | 144        |
| Total power input (Comp.+fans)  | (1) kW    | 9,87       | 8,23       | 11,2       | 12,0       | 13,3       | 15,9       | 17,5       | 19,5       | 22,8       | 27,7       | 34,7       |
| EER (Indoor unit)               | (1) kW/kW | 4,86       | 4,84       | 4,49       | 4,81       | 4,90       | 5,06       | 4,98       | 5,00       | 4,78       | 4,55       | 4,50       |
| SHR                             | (2)       | 0,93       | 0,98       | 0,91       | 1,00       | 0,96       | 0,93       | 0,94       | 0,93       | 0,89       | 1,00       | 0,92       |
| <b>PLATE CAPACITOR</b>          |           |            |            |            |            |            |            |            |            |            |            |            |
| Capacitors nr,                  | N°        | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Condenser fluid flow            | (1) l/s   | 2,70       | 2,23       | 2,86       | 3,25       | 3,66       | 4,41       | 4,88       | 5,46       | 6,18       | 7,10       | 8,87       |
| Pressure drop                   | (1) kPa   | 32,5       | 27,5       | 43,7       | 22,1       | 27,6       | 23,5       | 28,2       | 22,9       | 28,5       | 33,8       | 51,2       |
| <b>REFRIGERANT CIRCUIT</b>      |           |            |            |            |            |            |            |            |            |            |            |            |
| Compressors nr,                 | N°        | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 4          | 4          | 4          |
| No, Circuits                    | N°        | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          |
| Refrigerant charge              | kg        | 9,30       | 9,00       | 9,00       | 9,80       | 9,80       | 16,2       | 16,2       | 17,4       | 17,4       | 21,6       | 21,6       |
| <b>FANS</b>                     |           |            |            |            |            |            |            |            |            |            |            |            |
| Fans type                       | EC FAN    | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     | EC FAN     |
| Quantity                        | N°        | 1          | 1          | 1          | 2          | 2          | 2          | 2          | 2          | 3          | 3          | 3          |
| Air flow                        | (3) m³/h  | 10800      | 10000      | 12000      | 15200      | 15600      | 20000      | 20000      | 22000      | 33100      | 33100      | 33100      |
| <b>NOISE LEVEL</b>              |           |            |            |            |            |            |            |            |            |            |            |            |
| Sound Power                     | dB(A)     | 75         | 75         | 78         | 72         | 73         | 75         | 75         | 80         | 80         | 81         | 81         |
| Sound Pressure                  | (4) dB(A) | 58         | 58         | 61         | 55         | 56         | 57         | 57         | 62         | 62         | 63         | 63         |
| <b>SIZE AND WEIGHT</b>          |           |            |            |            |            |            |            |            |            |            |            |            |
| A                               | (3) mm    | 1630       | 1955       | 1955       | 2198       | 2198       | 2499       | 2499       | 2899       | 2899       | 3299       | 3299       |
| B                               | (3) mm    | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        |
| H                               | (3) mm    | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       |
| Weight                          | (3) kg    | 435        | 645        | 645        | 710        | 710        | 775        | 775        | 990        | 990        | 1140       | 1190       |

## Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.



# NEXT LEGACY

HIGH PRECISION AIR CONDITIONERS, FROM 3 TO 155 kW



## t-NEXT DF DX Air Cooled Dual Fluid Air Conditioners

| t-NEXT DF DX-OVER                  |         | 011 P1 S   | 014 P1 S   | 016 P1 S   | 020 P1 S   | 022 P1 S   | 026 P1 S   | 032 P1 S   | 037 P1 S   | 041 P1 S   |       |
|------------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|
| Frame                              |         | E1         | E2         | E3         | E3         | E3         | E3         | E4         | E4         | E4         |       |
| Power supply                       | V/ph/Hz | 400/3+N/50 |       |
| <b>PERFORMANCE</b>                 |         |            |            |            |            |            |            |            |            |            |       |
| <b>DIRECT EXPANSION</b>            |         |            |            |            |            |            |            |            |            |            |       |
| Total cooling capacity gross       | (1)     | kW         | 10,3       | 13,8       | 16,0       | 20,3       | 22,1       | 26,2       | 32,5       | 37,6       | 41,4  |
| Sensible cooling capacity gross    | (1)     | kW         | 10,2       | 13,8       | 14,8       | 20,3       | 22,1       | 25,3       | 32,5       | 37,6       | 41,2  |
| Total power input (Comp.+fans)     | (1)     | kW         | 2,64       | 3,37       | 3,85       | 4,54       | 5,50       | 6,74       | 7,62       | 9,25       | 10,2  |
| EER (Indoor unit)                  | (1)     | kW/kW      | 3,90       | 4,09       | 4,16       | 4,47       | 4,02       | 3,89       | 4,27       | 4,06       | 4,06  |
| SHR                                | (2)     |            | 0,99       | 1,00       | 0,92       | 1,00       | 1,00       | 0,97       | 1,00       | 1,00       | 1,00  |
| <b>CHILLED WATER</b>               |         |            |            |            |            |            |            |            |            |            |       |
| Total cooling capacity gross       | (3)     | kW         | 12,2       | 17,8       | 18,4       | 25,4       | 26,5       | 27,4       | 39,0       | 43,4       | 46,0  |
| Sensible cooling capacity gross    | (3)     | kW         | 11,8       | 17,2       | 18,0       | 24,6       | 25,6       | 26,8       | 38,3       | 42,0       | 44,9  |
| SHR                                | (2)     |            | 0,97       | 0,97       | 0,98       | 0,97       | 0,97       | 0,98       | 0,98       | 0,97       | 0,98  |
| Fluid flow                         | (3)     | l/s        | 0,59       | 0,85       | 0,88       | 1,21       | 1,27       | 1,31       | 1,86       | 2,07       | 2,20  |
| Total pressure drop (Coil + Valve) | (3)     | kPa        | 15,0       | 33,5       | 35,6       | 24,7       | 26,6       | 28,3       | 14,2       | 17,1       | 19,0  |
| <b>REFRIGERANT CIRCUIT</b>         |         |            |            |            |            |            |            |            |            |            |       |
| Compressors nr,                    |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |       |
| No. Circuits                       |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |       |
| Refrigerant charge                 |         | kg         |            |            |            |            |            |            |            |            |       |
| <b>FANS</b>                        |         |            |            |            |            |            |            |            |            |            |       |
| Fans type                          |         |            | EC FAN     |       |
| Quantity                           |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |       |
| Air flow                           | (4)     | m³/h       | 2800       | 4000       | 4200       | 5700       | 6100       | 6400       | 8700       | 10000      | 10800 |
| <b>NOISE LEVEL</b>                 |         |            |            |            |            |            |            |            |            |            |       |
| Sound Power                        |         | dB(A)      | 59         | 63         | 64         | 63         | 65         | 64         | 71         | 74         | 74    |
| Sound Pressure                     | (5)     | dB(A)      | 43         | 47         | 48         | 47         | 49         | 48         | 54         | 57         | 57    |
| <b>SIZE AND WEIGHT</b>             |         |            |            |            |            |            |            |            |            |            |       |
| A                                  | (4)     | mm         | 650        | 785        | 785        | 1085       | 1085       | 1085       | 1305       | 1305       | 1305  |
| B                                  | (4)     | mm         | 675        | 675        | 675        | 775        | 775        | 775        | 930        | 930        | 930   |
| H                                  | (4)     | mm         | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1980       | 1980       | 1980  |
| Weight                             | (4)     | kg         | 248        | 283        | 288        | 333        | 338        | 338        | 462        | 467        | 479   |
| <b>COUPLING UNIT EXTERNAL</b>      |         |            |            |            |            |            |            |            |            |            |       |
| Standard remote condenser linked   |         |            |            |            |            |            |            |            |            |            |       |
| Voltage                            |         |            |            |            |            |            |            |            |            |            |       |
| Quantity                           |         | N°         |            |            |            |            |            |            |            |            |       |

| t-NEXT DF DX-OVER                  |         | 045 P1 S   | 039 P2 D   | 048 P2 D   | 055 P2 D   | 062 P2 D   | 075 P2 D   | 082 P2 D   | 092 P2 D   | 102 P2 D   |      |
|------------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|
| Frame                              |         | E4         | E5         | E5         | E6         | E6         | E7         | E7         | E8         | E8         |      |
| Power supply                       | V/ph/Hz | 400/3+N/50 |      |
| <b>PERFORMANCE</b>                 |         |            |            |            |            |            |            |            |            |            |      |
| <b>DIRECT EXPANSION</b>            |         |            |            |            |            |            |            |            |            |            |      |
| Total cooling capacity gross       | (1)     | kW         | 45,4       | 38,1       | 48,6       | 55,1       | 61,9       | 75,4       | 82,5       | 92,0       | 104  |
| Sensible cooling capacity gross    | (1)     | kW         | 43,4       | 38,1       | 47,4       | 55,1       | 60,6       | 75,4       | 79,5       | 88,1       | 94,9 |
| Total power input (Comp.+fans)     | (1)     | kW         | 11,2       | 9,21       | 12,5       | 13,5       | 15,1       | 17,9       | 19,8       | 22,1       | 25,8 |
| EER (Indoor unit)                  | (1)     | kW/kW      | 4,05       | 4,14       | 3,89       | 4,08       | 4,10       | 4,21       | 4,17       | 4,16       | 4,03 |
| SHR                                | (2)     |            | 0,96       | 1,00       | 0,98       | 1,00       | 0,98       | 1,00       | 0,96       | 0,96       | 0,91 |
| <b>CHILLED WATER</b>               |         |            |            |            |            |            |            |            |            |            |      |
| Total cooling capacity gross       | (3)     | kW         | 46,0       | 48,8       | 55,5       | 65,3       | 67,3       | 101        | 101        | 116        | 116  |
| Sensible cooling capacity gross    | (3)     | kW         | 44,9       | 48,8       | 55,2       | 63,2       | 65,4       | 95,3       | 95,3       | 108        | 108  |
| SHR                                | (2)     |            | 0,98       | 1,00       | 0,99       | 0,97       | 0,97       | 0,94       | 0,94       | 0,93       | 0,93 |
| Fluid flow                         | (3)     | l/s        | 2,20       | 2,33       | 2,65       | 3,12       | 3,22       | 4,84       | 4,84       | 5,53       | 5,53 |
| Total pressure drop (Coil + Valve) | (3)     | kPa        | 19,0       | 26,3       | 33,1       | 15,7       | 16,6       | 38,8       | 38,8       | 49,3       | 49,3 |
| <b>REFRIGERANT CIRCUIT</b>         |         |            |            |            |            |            |            |            |            |            |      |
| Compressors nr,                    |         | N°         | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          |      |
| No. Circuits                       |         | N°         | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          |      |
| Refrigerant charge                 |         | kg         |            |            |            |            |            |            |            |            |      |
| <b>FANS</b>                        |         |            |            |            |            |            |            |            |            |            |      |
| Fans type                          |         |            | EC FAN     |      |
| Quantity                           |         | N°         | 1          | 1          | 1          | 2          | 2          | 2          | 2          | 2          |      |
| Air flow                           | (4)     | m³/h       | 10800      | 10000      | 12000      | 15000      | 15600      | 20000      | 22000      | 22000      |      |
| <b>NOISE LEVEL</b>                 |         |            |            |            |            |            |            |            |            |            |      |
| Sound Power                        |         | dB(A)      | 74         | 75         | 76         | 71         | 73         | 75         | 78         | 78         |      |
| Sound Pressure                     | (5)     | dB(A)      | 57         | 58         | 59         | 54         | 56         | 58         | 60         | 60         |      |
| <b>SIZE AND WEIGHT</b>             |         |            |            |            |            |            |            |            |            |            |      |
| A                                  | (4)     | mm         | 1305       | 1630       | 1630       | 1875       | 1875       | 2175       | 2175       | 2499       | 2499 |
| B                                  | (4)     | mm         | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930  |
| H                                  | (4)     | mm         | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980 |
| Weight                             | (4)     | kg         | 487        | 584        | 594        | 684        | 704        | 777        | 784        | 886        | 886  |
| <b>COUPLING UNIT EXTERNAL</b>      |         |            |            |            |            |            |            |            |            |            |      |
| Standard remote condenser linked   |         |            |            |            |            |            |            |            |            |            |      |
| Voltage                            |         |            |            |            |            |            |            |            |            |            |      |
| Quantity                           |         | N°         |            |            |            |            |            |            |            |            |      |

| <b>t-NEXT DF DX-UNDER</b>          |           | <b>011 P1 S</b> | <b>014 P1 S</b> | <b>016 P1 S</b> | <b>020 P1 S</b> | <b>022 P1 S</b> | <b>026 P1 S</b> | <b>032 P1 S</b> | <b>037 P1 S</b> | <b>041 P1 S</b> | <b>045 P1 S</b> |
|------------------------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Frame                              |           | E1              | E2              | E3              | E3              | E3              | E3              | E4              | E4              | E4              | E4              |
| Power supply                       | V/ph/Hz   | 400/3+N/50      |
| <b>PERFORMANCE</b>                 |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| <b>DIRECT EXPANSION</b>            |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross       | (1) kW    | 10,3            | 13,8            | 16,0            | 20,3            | 22,1            | 26,2            | 32,5            | 37,6            | 41,4            | 45,4            |
| Sensible cooling capacity gross    | (1) kW    | 10,2            | 13,8            | 14,8            | 20,3            | 22,1            | 25,3            | 32,5            | 37,6            | 41,2            | 43,4            |
| Total power input (Comp.+fans)     | (1) kW    | 2,64            | 3,27            | 3,74            | 4,54            | 5,50            | 6,74            | 7,62            | 9,25            | 10,2            | 11,2            |
| EER (Indoor unit)                  | (1) kW/kW | 3,90            | 4,22            | 4,28            | 4,47            | 4,02            | 3,89            | 4,27            | 4,06            | 4,06            | 4,05            |
| SHR                                | (2)       | 0,99            | 1,00            | 0,92            | 1,00            | 1,00            | 0,97            | 1,00            | 1,00            | 1,00            | 0,96            |
| <b>CHILLED WATER</b>               |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross       | (3) kW    | 12,2            | 17,8            | 18,4            | 25,4            | 26,5            | 27,4            | 39,0            | 43,4            | 46,0            | 46,0            |
| Sensible cooling capacity gross    | (3) kW    | 11,8            | 17,2            | 18,0            | 24,6            | 25,6            | 26,8            | 38,3            | 42,0            | 44,9            | 44,9            |
| SHR                                | (2)       | 0,97            | 0,97            | 0,98            | 0,97            | 0,97            | 0,98            | 0,98            | 0,97            | 0,98            | 0,98            |
| Fluid flow                         | (3) l/s   | 0,59            | 0,85            | 0,88            | 1,21            | 1,27            | 1,31            | 1,86            | 2,07            | 2,20            | 2,20            |
| Total pressure drop (Coil + Valve) | (3) kPa   | 15,0            | 33,5            | 35,6            | 24,7            | 26,6            | 28,3            | 14,2            | 17,1            | 19,0            | 19,0            |
| <b>REFRIGERANT CIRCUIT</b>         |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                    | N°        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| No. Circuits                       | N°        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Refrigerant charge                 | kg        |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| <b>FANS</b>                        |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Fans type                          |           | EC FAN          |
| Quantity                           | N°        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Air flow                           | (4) m³/h  | 2800            | 4000            | 4200            | 5700            | 6100            | 6400            | 8700            | 10000           | 10800           | 10800           |
| <b>NOISE LEVEL</b>                 |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Sound Power                        | (5) dB(A) | 59              | 64              | 65              | 64              | 66              | 66              | 72              | 75              | 74              | 74              |
| Sound Pressure                     | (5) dB(A) | 43              | 48              | 49              | 48              | 50              | 50              | 55              | 58              | 57              | 57              |
| <b>SIZE AND WEIGHT</b>             |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| A                                  | (4) mm    | 650             | 785             | 785             | 1085            | 1085            | 1085            | 1305            | 1305            | 1305            | 1305            |
| B                                  | (4) mm    | 675             | 675             | 675             | 775             | 775             | 775             | 930             | 930             | 930             | 930             |
| H                                  | (4) mm    | 1925            | 1925            | 1925            | 1925            | 1925            | 1925            | 1980            | 1980            | 1980            | 1980            |
| Weight                             | (4) kg    | 258             | 293             | 298             | 353             | 358             | 358             | 472             | 477             | 489             | 497             |
| <b>COUPLING UNIT EXTERNAL</b>      |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Standard remote condenser linked   |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Voltage                            |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Quantity                           | N°        |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |

| <b>t-NEXT DF DX-UNDER</b>          |           | <b>039 P2 D</b> | <b>048 P2 D</b> | <b>055 P2 D</b> | <b>062 P2 D</b> | <b>075 P2 D</b> | <b>082 P2 D</b> | <b>092 P2 D</b> | <b>102 P2 D</b> | <b>117 P4 D</b> | <b>146 P4 D</b> |
|------------------------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Frame                              |           | E5              | E5              | E6              | E6              | E7              | E7              | E8              | E8              | E9              | E9              |
| Power supply                       | V/ph/Hz   | 400/3+N/50      |
| <b>PERFORMANCE</b>                 |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| <b>DIRECT EXPANSION</b>            |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross       | (1) kW    | 38,1            | 48,6            | 55,1            | 61,9            | 75,4            | 82,5            | 92,0            | 104             | 122             | 147             |
| Sensible cooling capacity gross    | (1) kW    | 38,1            | 47,4            | 55,1            | 60,6            | 75,4            | 79,5            | 88,1            | 94,9            | 122             | 140             |
| Total power input (Comp.+fans)     | (1) kW    | 9,21            | 12,5            | 13,5            | 15,1            | 17,9            | 19,8            | 22,2            | 26,0            | 30,6            | 38,2            |
| EER (Indoor unit)                  | (1) kW/kW | 4,14            | 3,89            | 4,08            | 4,10            | 4,21            | 4,17            | 4,14            | 4,00            | 3,99            | 3,85            |
| SHR                                | (2)       | 1,00            | 0,98            | 1,00            | 0,98            | 1,00            | 0,96            | 0,96            | 0,91            | 1,00            | 0,95            |
| <b>CHILLED WATER</b>               |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross       | (3) kW    | 48,8            | 55,5            | 65,3            | 67,3            | 101             | 101             | 116             | 116             | 326             | 326             |
| Sensible cooling capacity gross    | (3) kW    | 48,8            | 55,2            | 63,2            | 65,4            | 95,3            | 95,3            | 108             | 108             | 236             | 236             |
| SHR                                | (2)       | 1,00            | 0,99            | 0,97            | 0,97            | 0,94            | 0,94            | 0,93            | 0,93            | 0,72            | 0,72            |
| Fluid flow                         | (3) l/s   | 2,33            | 2,65            | 3,12            | 3,22            | 4,84            | 4,84            | 5,53            | 5,53            | 15,6            | 15,6            |
| Total pressure drop (Coil + Valve) | (3) kPa   | 26,3            | 33,1            | 15,7            | 16,6            | 38,8            | 38,8            | 49,3            | 49,3            | 177             | 177             |
| <b>REFRIGERANT CIRCUIT</b>         |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                    | N°        | 2               | 2               | 2               | 2               | 2               | 2               | 2               | 2               | 4               | 4               |
| No. Circuits                       | N°        | 2               | 2               | 2               | 2               | 2               | 2               | 2               | 2               | 2               | 2               |
| Refrigerant charge                 | kg        |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| <b>FANS</b>                        |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Fans type                          |           | EC FAN          |
| Quantity                           | N°        | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               | 3               | 3               |
| Air flow                           | (4) m³/h  | 10000           | 12000           | 15000           | 15600           | 20000           | 20000           | 22000           | 22000           | 32000           | 32000           |
| <b>NOISE LEVEL</b>                 |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Sound Power                        | (5) dB(A) | 75              | 77              | 72              | 73              | 75              | 75              | 79              | 79              | 80              | 80              |
| Sound Pressure                     | (5) dB(A) | 58              | 60              | 55              | 56              | 58              | 58              | 61              | 61              | 62              | 62              |
| <b>SIZE AND WEIGHT</b>             |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| A                                  | (4) mm    | 1630            | 1630            | 1875            | 1875            | 2175            | 2175            | 2499            | 2499            | 2899            | 2899            |
| B                                  | (4) mm    | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             |
| H                                  | (4) mm    | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            |
| Weight                             | (4) kg    | 594             | 604             | 694             | 714             | 834             | 834             | 946             | 946             | 1150            | 1210            |
| <b>COUPLING UNIT EXTERNAL</b>      |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Standard remote condenser linked   |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Voltage                            |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Quantity                           | N°        |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |

## Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Condensing temperature 45°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 7°C/12°C; ESP= 20Pa.

4 Unit in standard configuration/execution, without optional accessories.

5 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface.

The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.



# NEXT LEGACY

HIGH PRECISION AIR CONDITIONERS, FROM 3 TO 155 kW



DUAL FLUID



WATER COOLED

## t-NEXT DF DW Water Cooled Dual Fluid Air Conditioners

| t-NEXT DF DW-OVER                  |         | 007 P1 S   | 009 P1 S   | 011 P1 S   | 014 P1 S   | 016 P1 S   | 020 P1 S   | 022 P1 S   | 026 P1 S   | 032 P1 S   | 037 P1 S   |
|------------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frame                              |         | E1         | E2         | E3         | E3         | E3         | E3         | E4         | E3         | E4L        | E4L        |
| Power supply                       | V/ph/Hz | 400/3+N/50 |
| <b>PERFORMANCE</b>                 |         |            |            |            |            |            |            |            |            |            |            |
| <b>DIRECT EXPANSION</b>            |         |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross       | (1)     | kW         | 7,89       | 9,39       | 11,0       | 14,5       | 16,3       | 21,2       | 23,0       | 27,8       | 34,4       |
| Sensible cooling capacity gross    | (1)     | kW         | 7,89       | 9,39       | 10,5       | 14,5       | 14,8       | 21,2       | 23,0       | 26,5       | 34,4       |
| Total power input (Comp.+fans)     | (1)     | kW         | 1,47       | 1,84       | 2,23       | 2,99       | 3,44       | 4,14       | 5,03       | 6,16       | 8,43       |
| EER (Indoor unit)                  | (1)     | kW/kW      | 5,37       | 5,10       | 4,93       | 4,85       | 4,74       | 5,12       | 4,57       | 4,51       | 5,01       |
| SHR                                | (2)     |            | 1,00       | 1,00       | 0,95       | 1,00       | 0,91       | 1,00       | 0,95       | 1,00       | 1,00       |
| <b>CHILLED WATER</b>               |         |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross       | (3)     | kW         | 11,2       | 11,8       | 12,2       | 17,6       | 18,3       | 25,4       | 26,5       | 27,4       | 39,0       |
| Sensible cooling capacity gross    | (3)     | kW         | 11,2       | 11,8       | 12,2       | 17,6       | 18,3       | 24,6       | 25,6       | 26,8       | 42,0       |
| SHR                                | (2)     | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 0,97       | 0,97       | 0,98       | 0,98       | 0,97       |
| Fluid flow                         | (3)     | l/s        | 0,54       | 0,57       | 0,58       | 0,84       | 0,88       | 1,21       | 1,27       | 1,31       | 1,86       |
| Total pressure drop (Coil + Valve) | (3)     | kPa        | 12,8       | 14,1       | 14,9       | 32,9       | 35,2       | 24,7       | 26,6       | 28,3       | 14,2       |
| <b>EXCHANGERS</b>                  |         |            |            |            |            |            |            |            |            |            |            |
| Compressors nr,                    |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Condenser fluid flow               | (1)     | l/s        | 0,44       | 0,53       | 0,62       | 0,81       | 0,91       | 1,17       | 1,29       | 1,57       | 1,91       |
| Pressure drop                      | (1)     | kPa        | 22,1       | 30,9       | 25,5       | 20,4       | 25,4       | 20,8       | 24,6       | 18,9       | 27,3       |
| <b>REFRIGERANT CIRCUIT</b>         |         |            |            |            |            |            |            |            |            |            |            |
| Compressors nr,                    |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| No. Circuits                       |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Refrigerant charge                 |         | kg         |            |            |            |            |            |            |            |            |            |
| <b>FANS</b>                        |         |            |            |            |            |            |            |            |            |            |            |
| Fans type                          |         |            | EC FAN     |
| Quantity                           |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Air flow                           | (4)     | m³/h       | 2500       | 2700       | 2800       | 4000       | 4200       | 5700       | 6100       | 6400       | 8700       |
| <b>NOISE LEVEL</b>                 |         |            |            |            |            |            |            |            |            |            |            |
| Sound Power                        |         | dB(A)      | 61         | 63         | 58         | 63         | 64         | 63         | 65         | 64         | 71         |
| Sound Pressure                     | (5)     | dB(A)      | 45         | 47         | 42         | 47         | 48         | 47         | 49         | 48         | 54         |
| <b>SIZE AND WEIGHT</b>             |         |            |            |            |            |            |            |            |            |            |            |
| A                                  | (4)     | mm         | 650        | 650        | 650        | 785        | 785        | 1085       | 1085       | 1085       | 1630       |
| B                                  | (4)     | mm         | 675        | 675        | 675        | 675        | 675        | 775        | 775        | 775        | 930        |
| H                                  | (4)     | mm         | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1980       |
| Weight                             | (4)     | kg         | 280        | 282        | 285        | 328        | 333        | 393        | 398        | 398        | 612        |

| t-NEXT DF DW-OVER                  |         | 041 P1 S   | 045 P1 S   | 039 P2 D   | 048 P2 D   | 055 P2 D   | 062 P2 D   | 075 P2 D   | 082 P2 D   | 092 P2 D   | 102 P2 D   |
|------------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frame                              |         | E4L        | E4L        | E5L        | E5L        | E6L        | E6L        | E7L        | E7L        | E8L        | E8L        |
| Power supply                       | V/ph/Hz | 400/3+N/50 |
| <b>PERFORMANCE</b>                 |         |            |            |            |            |            |            |            |            |            |            |
| <b>DIRECT EXPANSION</b>            |         |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross       | (1)     | kW         | 44,1       | 48,0       | 40,8       | 50,3       | 57,7       | 65,2       | 79,4       | 87,2       | 97,5       |
| Sensible cooling capacity gross    | (1)     | kW         | 42,6       | 44,8       | 38,0       | 46,0       | 57,5       | 62,5       | 77,7       | 82,1       | 91,0       |
| Total power input (Comp.+fans)     | (1)     | kW         | 9,12       | 10,1       | 8,35       | 11,5       | 12,3       | 13,7       | 16,2       | 18,0       | 20,0       |
| EER (Indoor unit)                  | (1)     | kW/kW      | 4,84       | 4,75       | 4,89       | 4,37       | 4,69       | 4,76       | 4,90       | 4,84       | 4,88       |
| SHR                                | (2)     |            | 0,97       | 0,93       | 0,93       | 0,91       | 1,00       | 0,96       | 0,98       | 0,94       | 0,89       |
| <b>CHILLED WATER</b>               |         |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross       | (3)     | kW         | 45,6       | 46,0       | 49,9       | 55,5       | 65,3       | 67,3       | 101        | 101        | 116        |
| Sensible cooling capacity gross    | (3)     | kW         | 45,6       | 44,9       | 48,2       | 55,2       | 63,2       | 65,4       | 95,3       | 95,3       | 108        |
| SHR                                | (2)     | 1,00       | 1,00       | 0,98       | 0,97       | 0,99       | 0,97       | 0,94       | 0,98       | 0,93       | 0,93       |
| Fluid flow                         | (3)     | l/s        | 2,18       | 2,20       | 2,39       | 2,65       | 3,12       | 3,22       | 4,84       | 4,84       | 5,53       |
| Total pressure drop (Coil + Valve) | (3)     | kPa        | 18,7       | 19,0       | 27,4       | 33,1       | 15,7       | 16,6       | 38,8       | 49,3       | 49,3       |
| <b>EXCHANGERS</b>                  |         |            |            |            |            |            |            |            |            |            |            |
| Compressors nr,                    |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Condenser fluid flow               | (1)     | l/s        | 2,46       | 2,70       | 2,27       | 2,86       | 3,25       | 3,66       | 4,41       | 4,88       | 5,46       |
| Pressure drop                      | (1)     | kPa        | 27,5       | 32,5       | 28,7       | 43,7       | 22,1       | 27,6       | 23,5       | 28,2       | 22,6       |
| <b>REFRIGERANT CIRCUIT</b>         |         |            |            |            |            |            |            |            |            |            |            |
| Compressors nr,                    |         | N°         | 1          | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          |
| No. Circuits                       |         | N°         | 1          | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          |
| Refrigerant charge                 |         | kg         |            |            |            |            |            |            |            |            |            |
| <b>FANS</b>                        |         |            |            |            |            |            |            |            |            |            |            |
| Fans type                          |         |            | EC FAN     |
| Quantity                           |         | N°         | 1          | 1          | 1          | 1          | 2          | 2          | 2          | 2          | 2          |
| Air flow                           | (4)     | m³/h       | 10800      | 10800      | 10000      | 12000      | 15000      | 15600      | 20000      | 20000      | 22000      |
| <b>NOISE LEVEL</b>                 |         |            |            |            |            |            |            |            |            |            |            |
| Sound Power                        |         | dB(A)      | 74         | 74         | 75         | 76         | 71         | 73         | 75         | 75         | 78         |
| Sound Pressure                     | (5)     | dB(A)      | 57         | 57         | 58         | 59         | 54         | 56         | 57         | 57         | 60         |
| <b>SIZE AND WEIGHT</b>             |         |            |            |            |            |            |            |            |            |            |            |
| A                                  | (4)     | mm         | 1630       | 1630       | 1955       | 1955       | 2198       | 2198       | 2499       | 2499       | 2899       |
| B                                  | (4)     | mm         | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        |
| H                                  | (4)     | mm         | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       |
| Weight                             | (4)     | kg         | 617        | 617        | 769        | 769        | 844        | 844        | 906        | 906        | 1137       |

| t-NEXT DF DW-UNDER                 |         | 007 P1 S   | 009 P1 S   | 011 P1 S   | 014 P1 S   | 016 P1 S   | 020 P1 S   | 022 P1 S   | 026 P1 S   | 032 P1 S   | 037 P1 S   | 041 P1 S   |        |
|------------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------|
| Frame                              |         | E1         | E1         | E1         | E2         | E2         | E3         | E3         | E3         | E4L        | E4L        | E4L        |        |
| Power supply                       | V/ph/Hz | 400/3+N/50 |        |
| <b>PERFORMANCE</b>                 |         |            |            |            |            |            |            |            |            |            |            |            |        |
| <b>DIRECT EXPANSION</b>            |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Total cooling capacity gross       | (1)     | kW         | 7,89       | 9,39       | 11,0       | 14,5       | 16,3       | 21,2       | 23,0       | 27,8       | 34,4       | 39,5       | 44,1   |
| Sensible cooling capacity gross    | (1)     | kW         | 7,89       | 9,39       | 10,5       | 14,5       | 14,8       | 21,2       | 23,0       | 26,5       | 34,4       | 39,5       | 42,6   |
| Total power input (Comp.+fans)     | (1)     | kW         | 1,47       | 1,84       | 2,35       | 2,99       | 3,44       | 4,14       | 5,03       | 6,16       | 6,87       | 8,43       | 9,12   |
| EER (Indoor unit)                  | (1)     | kW/kW      | 5,37       | 5,10       | 4,68       | 4,85       | 4,74       | 5,12       | 4,57       | 4,51       | 5,01       | 4,69       | 4,84   |
| SHR                                | (2)     |            | 1,00       | 1,00       | 0,95       | 1,00       | 0,91       | 1,00       | 1,00       | 0,95       | 1,00       | 1,00       | 0,97   |
| <b>CHILLED WATER</b>               |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Total cooling capacity gross       | (3)     | kW         | 11,2       | 11,8       | 12,2       | 17,6       | 18,3       | 25,4       | 26,5       | 27,4       | 39,0       | 43,4       | 45,6   |
| Sensible cooling capacity gross    | (3)     | kW         | 11,2       | 11,8       | 12,2       | 17,6       | 18,3       | 24,6       | 25,6       | 26,8       | 38,3       | 42,0       | 45,6   |
| SHR                                | (2)     |            | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 0,97       | 0,98       | 0,98       | 0,98       | 0,97       | 1,00   |
| Fluid flow                         | (3)     | l/s        | 0,54       | 0,57       | 0,58       | 0,84       | 0,88       | 1,21       | 1,27       | 1,31       | 1,86       | 2,07       | 2,18   |
| Total pressure drop (Coil + Valve) | (3)     | kPa        | 12,8       | 14,1       | 14,9       | 32,9       | 35,2       | 24,7       | 26,6       | 28,3       | 14,2       | 17,1       | 18,7   |
| <b>EXCHANGERS</b>                  |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Capacitors nr.                     |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1      |
| Condenser fluid flow               | (1)     | l/s        | 0,44       | 0,53       | 0,62       | 0,81       | 0,91       | 1,17       | 1,29       | 1,57       | 1,91       | 2,20       | 2,46   |
| Pressure drop                      | (1)     | kPa        | 22,1       | 30,9       | 25,5       | 20,4       | 25,4       | 20,8       | 24,6       | 18,9       | 27,3       | 35,4       | 27,5   |
| <b>REFRIGERANT CIRCUIT</b>         |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Compressors nr.                    |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1      |
| No. Circuits                       |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1      |
| Refrigerant charg                  |         | kg         |            |            |            |            |            |            |            |            |            |            |        |
| <b>FANS</b>                        |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Fans type                          |         |            | EC FAN     | EC FAN |
| Quantity                           |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1      |
| Air flow                           | (4)     | m³/h       | 2500       | 2700       | 2800       | 4000       | 4200       | 5700       | 6100       | 6400       | 8700       | 10000      | 10800  |
| <b>NOISE LEVEL</b>                 |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Sound Power                        |         | dB(A)      | 61         | 63         | 59         | 64         | 65         | 64         | 66         | 66         | 72         | 75         | 74     |
| Sound Pressure                     | (5)     | dB(A)      | 45         | 47         | 43         | 48         | 49         | 48         | 50         | 50         | 55         | 58         | 57     |
| <b>SIZE AND WEIGHT</b>             |         |            |            |            |            |            |            |            |            |            |            |            |        |
| A                                  | (4)     | mm         | 650        | 650        | 650        | 785        | 785        | 1085       | 1085       | 1085       | 1630       | 1630       | 1630   |
| B                                  | (4)     | mm         | 675        | 675        | 675        | 675        | 675        | 775        | 775        | 775        | 930        | 930        | 930    |
| H                                  | (4)     | mm         | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1980       | 1980       | 1980   |
| Weight                             | (4)     | kg         | 290        | 292        | 295        | 338        | 343        | 413        | 418        | 418        | 622        | 622        | 627    |
| t-NEXT DF DW-UNDER                 |         | 045 P1 S   | 039 P2 D   | 048 P2 D   | 055 P2 D   | 062 P2 D   | 075 P2 D   | 082 P2 D   | 092 P2 D   | 102 P2 D   | 117 P4 D   | 146 P4 D   |        |
| Frame                              |         | E4L        | E5L        | E5L        | E6L        | E6L        | E7L        | E7L        | E8L        | E8L        | E9L        | E9L        |        |
| Power supply                       | V/ph/Hz | 400/3+N/50 |        |
| <b>PERFORMANCE</b>                 |         |            |            |            |            |            |            |            |            |            |            |            |        |
| <b>DIRECT EXPANSION</b>            |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Total cooling capacity gross       | (1)     | kW         | 48,0       | 40,8       | 50,3       | 57,7       | 65,2       | 79,4       | 87,2       | 97,5       | 109        | 127        | 157    |
| Sensible cooling capacity gross    | (1)     | kW         | 44,8       | 38,0       | 46,0       | 57,5       | 62,5       | 77,7       | 82,1       | 91,0       | 97,2       | 123        | 143    |
| Total power input (Comp.+fans)     | (1)     | kW         | 10,1       | 8,35       | 11,5       | 12,3       | 13,7       | 16,2       | 18,0       | 20,0       | 23,3       | 28,8       | 35,8   |
| EER (Indoor unit)                  | (1)     | kW/kW      | 4,75       | 4,89       | 4,37       | 4,69       | 4,76       | 4,90       | 4,84       | 4,88       | 4,68       | 4,41       | 4,39   |
| SHR                                | (2)     |            | 0,93       | 0,93       | 0,91       | 1,00       | 0,96       | 0,98       | 0,94       | 0,93       | 0,89       | 0,97       | 0,91   |
| <b>CHILLED WATER</b>               |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Total cooling capacity gross       | (3)     | kW         | 46,0       | 49,9       | 55,5       | 65,3       | 67,3       | 101        | 101        | 116        | 116        | 145        | 145    |
| Sensible cooling capacity gross    | (3)     | kW         | 44,9       | 48,2       | 55,5       | 63,2       | 65,4       | 95,3       | 95,3       | 108        | 108        | 145        | 145    |
| SHR                                | (2)     |            | 0,98       | 0,97       | 0,99       | 0,97       | 0,97       | 0,94       | 0,94       | 0,93       | 0,93       | 1,00       | 1,00   |
| Fluid flow                         | (3)     | l/s        | 2,20       | 2,39       | 2,65       | 3,12       | 3,22       | 4,84       | 4,84       | 5,53       | 5,53       | 6,95       | 6,95   |
| Total pressure drop (Coil + Valve) | (3)     | kPa        | 19,0       | 27,4       | 33,1       | 15,7       | 16,6       | 38,8       | 38,8       | 49,3       | 49,3       | 42,4       | 42,4   |
| <b>EXCHANGERS</b>                  |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Capacitors nr.                     |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1      |
| Condenser fluid flow               | (1)     | l/s        | 2,70       | 2,27       | 2,86       | 3,25       | 3,66       | 4,41       | 4,88       | 5,46       | 6,18       | 7,16       | 8,93   |
| Pressure drop                      | (1)     | kPa        | 32,5       | 28,7       | 43,7       | 22,1       | 27,6       | 23,5       | 28,2       | 22,6       | 28,5       | 34,4       | 51,9   |
| <b>REFRIGERANT CIRCUIT</b>         |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Compressors nr.                    |         | N°         | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 4          | 4          | 4      |
| No. Circuits                       |         | N°         | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2      |
| Refrigerant charg                  |         | kg         |            |            |            |            |            |            |            |            |            |            |        |
| <b>FANS</b>                        |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Fans type                          |         |            | EC FAN     | EC FAN |
| Quantity                           |         | N°         | 1          | 1          | 1          | 2          | 2          | 2          | 2          | 2          | 3          | 3          | 3      |
| Air flow                           | (4)     | m³/h       | 10800      | 10000      | 12000      | 15000      | 15600      | 20000      | 20000      | 22000      | 33100      | 33100      | 33100  |
| <b>NOISE LEVEL</b>                 |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Sound Power                        |         | dB(A)      | 74         | 75         | 77         | 72         | 73         | 75         | 75         | 79         | 79         | 81         | 81     |
| Sound Pressure                     | (5)     | dB(A)      | 57         | 58         | 60         | 55         | 56         | 57         | 57         | 61         | 61         | 63         | 63     |
| <b>SIZE AND WEIGHT</b>             |         |            |            |            |            |            |            |            |            |            |            |            |        |
| A                                  | (4)     | mm         | 1630       | 1955       | 1955       | 2198       | 2198       | 2499       | 2499       | 2899       | 2899       | 3299       | 3299   |
| B                                  | (4)     | mm         | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930    |
| H                                  | (4)     | mm         | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980   |
| Weight                             | (4)     | kg         | 627        | 779        | 779        | 864        | 864        | 956        | 956        | 1197       | 1197       | 1395       | 1445   |

## Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP=20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 7°C/12°C; ESP=20Pa.

4 Unit in standard configuration/execution, without optional accessories.

5 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface.

The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.



# NEXT LEGACY

HIGH PRECISION AIR CONDITIONERS, FROM 3 TO 155 kW



FREE COOLING



WATER COOLED

**t-NEXT FC DW Water Cooled Free Cooling Air Conditioners**

| <b>t-NEXT FC DW-OVER</b>        |           | <b>007 P1 S</b> | <b>009 P1 S</b> | <b>011 P1 S</b> | <b>014 P1 S</b> | <b>016 P1 S</b> | <b>020 P1 S</b> | <b>022 P1 S</b> | <b>026 P1 S</b> | <b>032 P1 S</b> | <b>037 P1 S</b> |
|---------------------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Frame                           |           | E1              | E1              | E1              | E2              | E2              | E3              | E3              | E3              | E4L             | E4L             |
| Power supply                    | V/ph/Hz   | 400/3+N/50      |
| <b>PERFORMANCE</b>              |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| <b>DIRECT EXPANSION</b>         |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross    | (1) kW    | 7,88            | 9,79            | 11,4            | 15,2            | 15,4            | 21,2            | 23,5            | 27,9            | 34,0            | 39,4            |
| Sensible cooling capacity gross | (1) kW    | 7,88            | 8,95            | 10,3            | 13,9            | 15,4            | 21,2            | 22,2            | 26,3            | 33,8            | 33,9            |
| Total power input (Comp.+fans)  | (1) kW    | 1,44            | 1,82            | 2,20            | 2,90            | 3,32            | 4,02            | 4,93            | 6,00            | 6,73            | 8,23            |
| EER (Indoor unit)               | (1) kW/kW | 5,47            | 5,38            | 5,18            | 5,24            | 4,64            | 5,27            | 4,77            | 4,65            | 5,05            | 4,79            |
| SHR                             | (2)       | 1,00            | 0,91            | 0,90            | 0,91            | 1,00            | 1,00            | 0,94            | 1,00            | 0,99            | 0,99            |
| <b>FREECOOLING</b>              |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| FC total capacity               | (3) kW    | 9,20            | 10,1            | 10,6            | 15,1            | 15,7            | 21,4            | 22,5            | 24,2            | 33,2            | 37,5            |
| FC sensible capacity            | (3) kW    | 9,20            | 10,1            | 10,6            | 15,1            | 15,7            | 21,4            | 22,5            | 24,2            | 33,2            | 37,5            |
| SHR                             | (2)       | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            |
| <b>PLATE CAPACITOR</b>          |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Capacitors nr,                  | Nº        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Condenser fluid flow            | (1) l/s   | 0,44            | 0,55            | 0,64            | 0,85            | 0,88            | 1,17            | 1,32            | 1,57            | 1,89            | 2,20            |
| Pressure drop                   | (1) kPa   | 22,1            | 33,2            | 27,2            | 21,9            | 23,4            | 20,9            | 25,7            | 18,9            | 26,7            | 35,1            |
| <b>REFRIGERANT CIRCUIT</b>      |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                 | Nº        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| No. Circuits                    | Nº        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Refrigerant charge              | kg        | 3,30            | 3,30            | 3,30            | 3,60            | 3,60            | 4,40            | 4,40            | 4,50            | 6,20            | 6,20            |
| <b>FANS</b>                     |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Fans type                       |           | EC FAN          |
| Quantity                        | Nº        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Air flow                        | (4) m³/h  | 2500            | 2700            | 2800            | 4000            | 4200            | 5700            | 6100            | 6400            | 8700            | 10000           |
| <b>NOISE LEVEL</b>              |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Sound Power                     | (5) dB(A) | 61              | 62              | 57              | 63              | 64              | 63              | 65              | 64              | 71              | 74              |
| Sound Pressure                  | (5) dB(A) | 45              | 46              | 41              | 47              | 48              | 47              | 49              | 48              | 54              | 57              |
| <b>SIZE AND WEIGHT</b>          |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| A                               | (4) mm    | 650             | 650             | 650             | 785             | 785             | 1085            | 1085            | 1085            | 1630            | 1630            |
| B                               | (4) mm    | 675             | 675             | 675             | 675             | 675             | 775             | 775             | 775             | 930             | 930             |
| H                               | (4) mm    | 1925            | 1925            | 1925            | 1925            | 1925            | 1925            | 1925            | 1925            | 1980            | 1980            |
| Weight                          | (4) kg    | 280             | 282             | 285             | 328             | 333             | 393             | 398             | 398             | 612             | 612             |
| <b>COUPLING UNIT EXTERNAL</b>   |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Standard dry cooler linked      |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Voltage                         | V/ph/Hz   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Quantity                        | Nº        |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |

| <b>t-NEXT FC DW-OVER</b>        |           | <b>041 P1 S</b> | <b>045 P1 S</b> | <b>039 P2 D</b> | <b>048 P2 D</b> | <b>055 P2 D</b> | <b>062 P2 D</b> | <b>075 P2 D</b> | <b>082 P2 D</b> | <b>092 P2 D</b> | <b>102 P2 D</b> |
|---------------------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Frame                           |           | E4L             | E4L             | E5L             | E5L             | E6L             | E6L             | E7L             | E7L             | E8L             | E8L             |
| Power supply                    | V/ph/Hz   | 400/3+N/50      |
| <b>PERFORMANCE</b>              |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| <b>DIRECT EXPANSION</b>         |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross    | (1) kW    | 44,1            | 48,0            | 40,8            | 51,1            | 59,2            | 65,2            | 79,4            | 87,2            | 99,7            | 112             |
| Sensible cooling capacity gross | (1) kW    | 42,6            | 44,8            | 38,0            | 46,1            | 56,1            | 62,5            | 77,7            | 82,1            | 90,9            | 97,9            |
| Total power input (Comp.+fans)  | (1) kW    | 8,89            | 9,92            | 8,22            | 10,9            | 12,0            | 13,4            | 15,8            | 17,5            | 19,7            | 22,9            |
| EER (Indoor unit)               | (1) kW/kW | 4,96            | 4,84            | 4,96            | 4,69            | 4,93            | 4,87            | 5,03            | 4,98            | 5,06            | 4,89            |
| SHR                             | (2)       | 0,97            | 0,93            | 0,93            | 0,90            | 0,95            | 0,96            | 0,98            | 0,94            | 0,91            | 0,87            |
| <b>FREECOOLING</b>              |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| FC total capacity               | (3) kW    | 40,1            | 40,3            | 40,5            | 44,8            | 56,4            | 58,8            | 79,2            | 80,3            | 90,6            | 92,0            |
| FC sensible capacity            | (3) kW    | 40,1            | 40,3            | 40,5            | 44,8            | 56,4            | 58,8            | 79,2            | 80,3            | 90,6            | 92,0            |
| SHR                             | (2)       | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            | 1,00            |
| <b>PLATE CAPACITOR</b>          |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Capacitors nr,                  | Nº        | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Condenser fluid flow            | (1) l/s   | 2,46            | 2,70            | 2,27            | 2,90            | 3,32            | 3,66            | 4,41            | 4,88            | 5,57            | 6,30            |
| Pressure drop                   | (1) kPa   | 27,5            | 32,5            | 28,7            | 44,7            | 23,2            | 27,6            | 23,5            | 28,2            | 23,5            | 29,6            |
| <b>REFRIGERANT CIRCUIT</b>      |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                 | Nº        | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               | 2               | 2               |
| No. Circuits                    | Nº        | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               | 2               | 2               |
| Refrigerant charge              | kg        | 9,30            | 9,30            | 9,70            | 9,70            | 11,0            | 11,4            | 17,8            | 17,8            | 19,1            | 19,1            |
| <b>FANS</b>                     |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Fans type                       |           | EC FAN          |
| Quantity                        | Nº        | 1               | 1               | 1               | 1               | 2               | 2               | 2               | 2               | 2               | 2               |
| Air flow                        | (4) m³/h  | 10800           | 10800           | 10000           | 11000           | 15000           | 15600           | 20000           | 20000           | 22000           | 22000           |
| <b>NOISE LEVEL</b>              |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Sound Power                     | (5) dB(A) | 75              | 75              | 75              | 75              | 71              | 73              | 75              | 75              | 78              | 78              |
| Sound Pressure                  | (5) dB(A) | 58              | 58              | 58              | 58              | 54              | 56              | 57              | 57              | 60              | 60              |
| <b>SIZE AND WEIGHT</b>          |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| A                               | (4) mm    | 1630            | 1630            | 1955            | 1955            | 2198            | 2198            | 2499            | 2499            | 2899            | 2899            |
| B                               | (4) mm    | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             | 930             |
| H                               | (4) mm    | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            |
| Weight                          | (4) kg    | 617             | 617             | 769             | 769             | 844             | 844             | 906             | 906             | 1137            | 1137            |
| <b>COUPLING UNIT EXTERNAL</b>   |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Standard dry cooler linked      |           |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Voltage                         | V/ph/Hz   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Quantity                        | Nº        |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |

| t-NEXT FC DW-UNDER              |         | 007 P1 S   | 009 P1 S   | 011 P1 S   | 014 P1 S   | 016 P1 S   | 020 P1 S   | 022 P1 S   | 026 P1 S   | 032 P1 S   | 037 P1 S   | 041 P1 S   |        |
|---------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------|
| Frame                           |         | E1         | E1         | E1         | E2         | E2         | E3         | E3         | E3         | E4L        | E4L        | E4L        |        |
| Power supply                    | V/ph/Hz | 400/3+N/50 |        |
| <b>PERFORMANCE</b>              |         |            |            |            |            |            |            |            |            |            |            |            |        |
| <b>DIRECT EXPANSION</b>         |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Total cooling capacity gross    | (1)     | kW         | 7,88       | 9,79       | 11,4       | 15,2       | 15,4       | 21,2       | 23,5       | 27,9       | 34,0       | 39,4       | 44,1   |
| Sensible cooling capacity gross | (1)     | kW         | 7,88       | 8,95       | 10,3       | 13,9       | 15,4       | 21,2       | 22,2       | 26,3       | 33,8       | 38,9       | 42,6   |
| Total power input (Comp.+fans)  | (1)     | kW         | 1,44       | 1,82       | 2,34       | 2,90       | 3,32       | 4,02       | 4,93       | 6,00       | 6,73       | 8,23       | 8,89   |
| EER (Indoor unit)               | (1)     | kW/kW      | 5,47       | 5,38       | 4,87       | 5,24       | 4,64       | 5,27       | 4,77       | 4,65       | 5,05       | 4,79       | 4,96   |
| SHR                             | (2)     |            | 1,00       | 0,91       | 0,90       | 0,91       | 1,00       | 1,00       | 0,94       | 0,94       | 0,99       | 0,99       | 0,97   |
| <b>FREECOOLING</b>              |         |            |            |            |            |            |            |            |            |            |            |            |        |
| FC total capacity               | (3)     | kW         | 9,20       | 10,1       | 10,6       | 15,1       | 15,7       | 21,4       | 22,5       | 24,2       | 33,2       | 37,5       | 40,1   |
| FC sensible capacity            | (3)     | kW         | 9,20       | 10,1       | 10,6       | 15,1       | 15,7       | 21,4       | 22,5       | 24,2       | 33,2       | 37,5       | 40,1   |
| SHR                             | (2)     |            | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00   |
| <b>PLATE CAPACITOR</b>          |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Capacitors nr,                  |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1      |
| Condenser fluid flow            | (1)     | l/s        | 0,44       | 0,55       | 0,64       | 0,85       | 0,88       | 1,17       | 1,32       | 1,57       | 1,89       | 2,20       | 2,46   |
| Pressure drop                   | (1)     | kPa        | 22,1       | 33,2       | 27,2       | 21,9       | 23,4       | 20,9       | 25,7       | 18,9       | 26,7       | 35,1       | 27,5   |
| <b>REFRIGERANT CIRCUIT</b>      |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Compressors nr,                 |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1      |
| No, Circuits                    |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1      |
| Refrigerant charge              |         | kg         | 3,30       | 3,30       | 3,30       | 3,60       | 3,60       | 4,40       | 4,40       | 4,50       | 6,20       | 6,20       | 9,30   |
| <b>FANS</b>                     |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Fans type                       |         |            | EC FAN     | EC FAN |
| Quantity                        |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1      |
| Air flow                        | (4)     | m³/h       | 2500       | 2700       | 2800       | 4000       | 4200       | 5700       | 6100       | 6400       | 8700       | 10000      | 10800  |
| <b>NOISE LEVEL</b>              |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Sound Power                     |         | dB(A)      | 61         | 62         | 58         | 64         | 65         | 64         | 66         | 66         | 72         | 75         | 75     |
| Sound Pressure                  | (5)     | dB(A)      | 45         | 46         | 42         | 48         | 49         | 48         | 50         | 50         | 52         | 58         | 58     |
| <b>SIZE AND WEIGHT</b>          |         |            |            |            |            |            |            |            |            |            |            |            |        |
| A                               | (4)     | mm         | 650        | 650        | 650        | 785        | 785        | 1085       | 1085       | 1630       | 1630       | 1630       | 1630   |
| B                               | (4)     | mm         | 675        | 675        | 675        | 675        | 675        | 775        | 775        | 930        | 930        | 930        | 930    |
| H                               | (4)     | mm         | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       | 1980   |
| Weight                          | (4)     | kg         | 290        | 292        | 295        | 338        | 343        | 413        | 418        | 622        | 622        | 622        | 627    |
| <b>COUPLING UNIT EXTERNAL</b>   |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Standard dry cooler linked      |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Voltage                         |         | V/ph/Hz    |            |            |            |            |            |            |            |            |            |            |        |
| Quantity                        |         | N°         |            |            |            |            |            |            |            |            |            |            |        |
| t-NEXT FC DW-UNDER              |         | 045 P1 S   | 039 P2 D   | 048 P2 D   | 055 P2 D   | 062 P2 D   | 075 P2 D   | 082 P2 D   | 092 P2 D   | 102 P2 D   | 117 P4 D   | 146 P4 D   |        |
| Frame                           |         | E4L        | E5L        | E5L        | E6L        | E6L        | E7L        | E7L        | E8L        | E8L        | E9L        | E9L        |        |
| Power supply                    | V/ph/Hz | 400/3+N/50 |        |
| <b>PERFORMANCE</b>              |         |            |            |            |            |            |            |            |            |            |            |            |        |
| <b>DIRECT EXPANSION</b>         |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Total cooling capacity gross    | (1)     | kW         | 48,0       | 40,8       | 51,1       | 59,2       | 65,2       | 79,4       | 87,2       | 99,7       | 112        | 127        | 157    |
| Sensible cooling capacity gross | (1)     | kW         | 44,8       | 38,0       | 46,1       | 56,1       | 62,5       | 77,7       | 82,1       | 90,9       | 97,9       | 123        | 143    |
| Total power input (Comp.+fans)  | (1)     | kW         | 9,92       | 8,22       | 10,9       | 12,0       | 13,4       | 15,8       | 17,5       | 19,7       | 22,9       | 28,0       | 34,9   |
| EER (Indoor unit)               | (1)     | kW/kW      | 4,84       | 4,96       | 4,69       | 4,93       | 4,87       | 5,03       | 4,98       | 5,06       | 4,89       | 4,54       | 4,50   |
| SHR                             | (2)     |            | 0,93       | 0,93       | 0,90       | 0,95       | 0,96       | 0,98       | 0,94       | 0,91       | 0,87       | 0,97       | 0,91   |
| <b>FREECOOLING</b>              |         |            |            |            |            |            |            |            |            |            |            |            |        |
| FC total capacity               | (3)     | kW         | 40,3       | 40,5       | 44,8       | 56,4       | 58,8       | 79,2       | 80,3       | 90,6       | 92,0       | 124        | 128    |
| FC sensible capacity            | (3)     | kW         | 40,3       | 40,5       | 44,8       | 56,4       | 58,8       | 79,2       | 80,3       | 90,6       | 92,0       | 124        | 128    |
| SHR                             | (2)     |            | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00   |
| <b>PLATE CAPACITOR</b>          |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Capacitors nr,                  |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1      |
| Condenser fluid flow            | (1)     | l/s        | 2,70       | 2,27       | 2,90       | 3,32       | 3,66       | 4,41       | 4,88       | 5,57       | 6,30       | 7,16       | 8,93   |
| Pressure drop                   | (1)     | kPa        | 32,5       | 28,7       | 45,1       | 23,2       | 27,6       | 23,5       | 28,2       | 23,5       | 29,6       | 34,4       | 51,9   |
| <b>REFRIGERANT CIRCUIT</b>      |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Compressors nr,                 |         | N°         | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 4          | 4          |        |
| No, Circuits                    |         | N°         | 1          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          | 2          |        |
| Refrigerant charge              |         | kg         | 9,30       | 9,70       | 9,70       | 11,0       | 11,4       | 16,2       | 16,2       | 19,1       | 19,1       | 21,6       | 21,6   |
| <b>FANS</b>                     |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Fans type                       |         |            | EC FAN     | EC FAN |
| Quantity                        |         | N°         | 1          | 1          | 1          | 2          | 2          | 2          | 2          | 2          | 3          | 3          |        |
| Air flow                        | (4)     | m³/h       | 10800      | 10000      | 11000      | 15000      | 15600      | 20000      | 20000      | 22000      | 33100      | 33100      |        |
| <b>NOISE LEVEL</b>              |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Sound Power                     |         | dB(A)      | 75         | 75         | 76         | 72         | 73         | 75         | 75         | 79         | 79         | 81         | 81     |
| Sound Pressure                  | (5)     | dB(A)      | 58         | 58         | 59         | 55         | 56         | 57         | 57         | 61         | 61         | 63         | 63     |
| <b>SIZE AND WEIGHT</b>          |         |            |            |            |            |            |            |            |            |            |            |            |        |
| A                               | (4)     | mm         | 1630       | 1955       | 1955       | 2198       | 2198       | 2499       | 2499       | 2899       | 2899       | 3299       | 3299   |
| B                               | (4)     | mm         | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930        | 930    |
| H                               | (4)     | mm         | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980   |
| Weight                          | (4)     | kg         | 627        | 779        | 779        | 864        | 864        | 956        | 956        | 1197       | 1197       | 1395       | 1445   |
| <b>COUPLING UNIT EXTERNAL</b>   |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Standard dry cooler linked      |         |            |            |            |            |            |            |            |            |            |            |            |        |
| Voltage                         |         | V/ph/Hz    |            |            |            |            |            |            |            |            |            |            |        |
| Quantity                        |         | N°         |            |            |            |            |            |            |            |            |            |            |        |

## Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Indoor air (in) 26°C - R.H. 40%; Water (in) 10°C and water flow of DX mode; ESP = 20Pa.

4 Unit in standard configuration/execution, without optional accessories.

5 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.



# NEXT LEGACY

HIGH PRECISION AIR CONDITIONERS, FROM 3 TO 155 kW



INVERTER



AIR COOLED

i-NEXT DX Air Cooled Direct Expansion Air Conditioners with inverter technology

| i-NEXT DX-OVER                   |                                                                                                 | 012 M1 S   | 018 M1 S   | 022 M1 S   | 030 M1 S   | 042 M2 D   | 047 M1 S   | 068 M2 D   | 094 M2 D   |       |
|----------------------------------|-------------------------------------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|
| Frame                            | <th>E1</th> <th>E2</th> <th>E3</th> <th>E4</th> <th>E5</th> <th>E5</th> <th>E7</th> <th>E8</th> | E1         | E2         | E3         | E4         | E5         | E5         | E7         | E8         |       |
| Power supply                     | V/ph/Hz                                                                                         | 400/3+N/50 |       |
| <b>PERFORMANCE</b>               |                                                                                                 |            |            |            |            |            |            |            |            |       |
| Total cooling capacity gross     | (1)                                                                                             | kW         | 9,12       | 17,8       | 22,2       | 30,7       | 43,8       | 48,2       | 68,6       | 93,9  |
| Sensible cooling capacity gross  | (1)                                                                                             | kW         | 9,12       | 17,7       | 22,2       | 30,7       | 43,8       | 48,2       | 68,6       | 93,9  |
| Total power input (Comp.+fans)   | (1)                                                                                             | kW         | 2,12       | 4,80       | 6,01       | 7,73       | 11,5       | 12,9       | 17,7       | 25,1  |
| EER (Indoor unit)                | (1)                                                                                             | kW/kW      | 4,30       | 3,71       | 3,69       | 3,97       | 3,81       | 3,74       | 3,88       | 3,74  |
| SHR                              | (2)                                                                                             |            | 1,00       | 0,99       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00  |
| <b>REFRIGERANT CIRCUIT</b>       |                                                                                                 |            |            |            |            |            |            |            |            |       |
| Compressors nr,                  |                                                                                                 | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 2          | 2     |
| No, Circuits                     |                                                                                                 | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 2          | 2     |
| Refrigerant charge               |                                                                                                 | kg         | 3,24       | 3,60       | 4,30       | 6,10       | 8,60       | 9,20       | 12,2       | 18,4  |
| <b>FANS</b>                      |                                                                                                 |            |            |            |            |            |            |            |            |       |
| Fans type                        |                                                                                                 |            | EC FAN     |       |
| Quantity                         |                                                                                                 | N°         | 1          | 1          | 1          | 1          | 1          | 2          | 2          |       |
| Air flow                         | (3)                                                                                             | m³/h       | 2700       | 4100       | 5000       | 7500       | 12000      | 12000      | 17500      | 22000 |
| <b>NOISE LEVEL</b>               |                                                                                                 |            |            |            |            |            |            |            |            |       |
| Sound Power                      |                                                                                                 | dB(A)      | 57         | 63         | 60         | 67         | 82         | 76         | 72         | 78    |
| Sound Pressure                   | (4)                                                                                             | dB(A)      | 41         | 47         | 44         | 50         | 65         | 59         | 55         | 60    |
| <b>SIZE AND WEIGHT</b>           |                                                                                                 |            |            |            |            |            |            |            |            |       |
| A                                | (3)                                                                                             | mm         | 650        | 785        | 1085       | 1305       | 1630       | 1630       | 2175       | 2499  |
| B                                | (3)                                                                                             | mm         | 675        | 675        | 775        | 930        | 930        | 930        | 930        | 930   |
| H                                | (3)                                                                                             | mm         | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       | 1980       | 1980  |
| Weight                           | (3)                                                                                             | kg         | 210        | 240        | 320        | 430        | 565        | 480        | 650        | 805   |
| <b>COUPLING UNIT EXTERNAL</b>    |                                                                                                 |            |            |            |            |            |            |            |            |       |
| Standard remote condenser linked |                                                                                                 |            |            |            |            |            |            |            |            |       |
| Voltage                          |                                                                                                 |            |            |            |            |            |            |            |            |       |
| Quantity                         |                                                                                                 | N°         |            |            |            |            |            |            |            |       |

Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Condensing temperature 45°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases

| i-NEXT DX-UNDER                  |                                                                                                                         | 012 M1 S | 018 M1 S | 022 M1 S | 030 M1 S | 042 M2 D | 047 M1 S | 068 M2 D | 094 M2 D | 120 M4 D | 150 M4 D |      |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Frame                            | <th>E1</th> <th>E2</th> <th>E3</th> <th>E4</th> <th>E5</th> <th>E5</th> <th>E7</th> <th>E8</th> <th>E9</th> <th>E9</th> | E1       | E2       | E3       | E4       | E5       | E5       | E7       | E8       | E9       | E9       |      |
| <b>PERFORMANCE</b>               |                                                                                                                         |          |          |          |          |          |          |          |          |          |          |      |
| Total cooling capacity gross     | (1)                                                                                                                     | kW       | 9,12     | 17,8     | 22,2     | 30,7     | 43,8     | 48,2     | 68,6     | 93,9     | 100      | 129  |
| Sensible cooling capacity gross  | (1)                                                                                                                     | kW       | 9,12     | 17,7     | 22,2     | 30,7     | 43,8     | 48,2     | 68,6     | 93,9     | 100      | 129  |
| Total power input (Comp.+fans)   | (1)                                                                                                                     | kW       | 2,12     | 4,81     | 6,01     | 7,73     | 11,7     | 12,9     | 17,7     | 25,1     | 28,3     | 38,7 |
| EER (Indoor unit)                | (1)                                                                                                                     | kW/kW    | 4,30     | 3,70     | 3,69     | 3,97     | 3,74     | 3,74     | 3,88     | 3,74     | 3,53     | 3,33 |
| SHR                              | (2)                                                                                                                     |          | 1,00     | 0,99     | 1,00     | 1,00     | 1,00     | 1,00     | 1,00     | 1,00     | 1,00     | 1,00 |
| <b>REFRIGERANT CIRCUIT</b>       |                                                                                                                         |          |          |          |          |          |          |          |          |          |          |      |
| Compressors nr,                  |                                                                                                                         | N°       | 1        | 1        | 1        | 1        | 2        | 1        | 2        | 4        | 4        |      |
| No, Circuits                     |                                                                                                                         | N°       | 1        | 1        | 1        | 1        | 2        | 1        | 2        | 2        | 2        |      |
| Refrigerant charge               |                                                                                                                         | kg       | 3,24     | 3,60     | 4,30     | 6,10     | 8,60     | 9,20     | 12,2     | 18,4     | 20,8     |      |
| <b>FANS</b>                      |                                                                                                                         |          |          |          |          |          |          |          |          |          |          |      |
| Fans type                        |                                                                                                                         |          | EC FAN   |      |
| Quantity                         |                                                                                                                         | N°       | 1        | 1        | 1        | 1        | 1        | 2        | 2        | 3        | 3        |      |
| Air flow                         | (3)                                                                                                                     | m³/h     | 2700     | 4100     | 5000     | 7500     | 12000    | 12000    | 17500    | 22000    | 32000    |      |
| <b>NOISE LEVEL</b>               |                                                                                                                         |          |          |          |          |          |          |          |          |          |          |      |
| Sound Power                      |                                                                                                                         | dB(A)    | 57       | 64       | 61       | 68       | 75       | 77       | 72       | 79       | 77       |      |
| Sound Pressure                   | (4)                                                                                                                     | dB(A)    | 41       | 48       | 45       | 51       | 58       | 60       | 55       | 61       | 59       |      |
| <b>SIZE AND WEIGHT</b>           |                                                                                                                         |          |          |          |          |          |          |          |          |          |          |      |
| A                                | (3)                                                                                                                     | mm       | 650      | 785      | 1085     | 1305     | 1630     | 1630     | 2175     | 2499     | 2899     |      |
| B                                | (3)                                                                                                                     | mm       | 675      | 675      | 775      | 930      | 930      | 930      | 930      | 930      | 930      |      |
| H                                | (3)                                                                                                                     | mm       | 1925     | 1925     | 1925     | 1980     | 1980     | 1980     | 1980     | 1980     | 1980     |      |
| Weight                           | (3)                                                                                                                     | kg       | 220      | 250      | 330      | 440      | 575      | 490      | 705      | 865      | 985      |      |
| <b>COUPLING UNIT EXTERNAL</b>    |                                                                                                                         |          |          |          |          |          |          |          |          |          |          |      |
| Standard remote condenser linked |                                                                                                                         |          |          |          |          |          |          |          |          |          |          |      |
| Voltage                          |                                                                                                                         |          |          |          |          |          |          |          |          |          |          |      |
| Quantity                         |                                                                                                                         | N°       |          |          |          |          |          |          |          |          |          |      |

Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Condensing temperature 45°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases


**i-NEXT DW Water Cooled Direct Expansion Air Conditioners with inverter technology**


| <b>i-NEXT DW-OVER</b>           |         | <b>012 M1 S</b> | <b>018 M1 S</b> | <b>022 M1 S</b> | <b>030 M1 S</b> | <b>042 M2 D</b> | <b>047 M1 S</b> | <b>068 M2 D</b> | <b>094 M2 D</b> |
|---------------------------------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Frame                           |         | E1              | E2              | E3              | E4L             | E5L             | E5L             | E7L             | E8L             |
| Power supply                    | V/ph/Hz | 400/3+N/50      |
| <b>PERFORMANCE</b>              |         |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross    | (1)     | kW              | 9,73            | 19,2            | 23,9            | 32,6            | 46,2            | 50,9            | 72,3            |
| Sensible cooling capacity gross | (1)     | kW              | 9,72            | 17,8            | 22,3            | 31,2            | 45,1            | 48,0            | 69,8            |
| Total power input (Comp.+fans)  | (1)     | kW              | 1,77            | 4,24            | 5,32            | 6,77            | 10,6            | 11,7            | 22,3            |
| EER (Indoor unit)               | (1)     | kW/kW           | 5,50            | 4,53            | 4,49            | 4,82            | 4,36            | 4,35            | 4,46            |
| SHR                             | (2)     |                 | 1,00            | 0,93            | 0,93            | 0,96            | 0,98            | 0,94            | 0,93            |
| <b>PLATE CAPACITOR</b>          |         |                 |                 |                 |                 |                 |                 |                 |                 |
| Capacitors nr,                  |         | N°              | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Condenser fluid flow            | (1)     | l/s             | 0,54            | 1,10            | 1,38            | 1,85            | 2,63            | 2,90            | 4,12            |
| Pressure drop                   | (1)     | kPa             | 21,0            | 30,9            | 29,4            | 17,2            | 18,0            | 40,5            | 22,2            |
| <b>REFRIGERANT CIRCUIT</b>      |         |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                 |         | N°              | 1               | 1               | 1               | 1               | 2               | 1               | 2               |
| No. Circuits                    |         | N°              | 1               | 1               | 1               | 1               | 2               | 1               | 2               |
| Refrigerant charge              |         | kg              | 3,20            | 3,80            | 4,60            | 6,80            | 9,40            | 9,90            | 13,8            |
| <b>FANS</b>                     |         |                 |                 |                 |                 |                 |                 |                 |                 |
| Fans type                       |         |                 | EC FAN          |
| Quantity                        |         | N°              | 1               | 1               | 1               | 1               | 1               | 2               | 2               |
| Air flow                        | (3)     | m³/h            | 2700            | 4100            | 5100            | 7500            | 12000           | 12000           | 17500           |
| <b>NOISE LEVEL</b>              |         |                 |                 |                 |                 |                 |                 |                 |                 |
| Sound Power                     |         | dB(A)           | 57              | 63              | 61              | 67              | 76              | 76              | 78              |
| Sound Pressure                  | (4)     | dB(A)           | 41              | 47              | 45              | 50              | 59              | 59              | 60              |
| <b>SIZE AND WEIGHT</b>          |         |                 |                 |                 |                 |                 |                 |                 |                 |
| A                               | (3)     | mm              | 650             | 785             | 1085            | 1630            | 1955            | 1955            | 2499            |
| B                               | (3)     | mm              | 675             | 675             | 775             | 930             | 930             | 930             | 930             |
| H                               | (3)     | mm              | 1925            | 1925            | 1925            | 1980            | 1980            | 1980            | 1980            |
| Weight                          | (3)     | kg              | 230             | 280             | 325             | 480             | 610             | 580             | 730             |
|                                 |         |                 |                 |                 |                 |                 |                 |                 | 900             |

## Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

| <b>i-NEXT DW-UNDER</b>          |         | <b>012 M1 S</b> | <b>018 M1 S</b> | <b>022 M1 S</b> | <b>030 M1 S</b> | <b>042 M2 D</b> | <b>047 M1 S</b> | <b>068 M2 D</b> | <b>094 M2 D</b> | <b>120 M4 D</b> | <b>150 M4 D</b> |
|---------------------------------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Frame                           |         | E1              | E2              | E3              | E4L             | E5L             | E5L             | E7L             | E8L             | E9L             | E9L             |
| Power supply                    | V/ph/Hz | 400/3+N/50      |
| <b>PERFORMANCE</b>              |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Total cooling capacity gross    | (1)     | kW              | 9,73            | 19,2            | 23,9            | 32,6            | 46,2            | 50,9            | 72,3            | 99,5            | 117             |
| Sensible cooling capacity gross | (1)     | kW              | 9,72            | 17,8            | 22,3            | 31,2            | 45,1            | 48,0            | 69,8            | 92,6            | 114             |
| Total power input (Comp.+fans)  | (1)     | kW              | 1,77            | 4,24            | 5,32            | 6,77            | 10,6            | 11,7            | 15,7            | 22,3            | 27,2            |
| EER (Indoor unit)               | (1)     | kW/kW           | 5,50            | 4,53            | 4,49            | 4,82            | 4,36            | 4,35            | 4,61            | 4,46            | 4,30            |
| SHR                             | (2)     |                 | 1,00            | 0,93            | 0,93            | 0,96            | 0,98            | 0,94            | 0,93            | 0,97            | 0,94            |
| <b>PLATE CAPACITOR</b>          |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Capacitors nr,                  |         | N°              | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |
| Condenser fluid flow            | (1)     | l/s             | 0,54            | 1,10            | 1,38            | 1,85            | 2,63            | 2,90            | 4,12            | 5,68            | 6,64            |
| Pressure drop                   | (1)     | kPa             | 21,0            | 30,9            | 29,4            | 17,2            | 18,0            | 40,5            | 22,2            | 29,6            | 42,9            |
| <b>REFRIGERANT CIRCUIT</b>      |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Compressors nr,                 |         | N°              | 1               | 1               | 1               | 1               | 2               | 1               | 2               | 4               | 4               |
| No. Circuits                    |         | N°              | 1               | 1               | 1               | 1               | 2               | 1               | 2               | 2               | 2               |
| Refrigerant charge              |         | kg              | 3,20            | 3,80            | 4,60            | 6,80            | 9,40            | 9,90            | 13,8            | 20,2            | 21,6            |
| <b>FANS</b>                     |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Fans type                       |         |                 | EC FAN          |
| Quantity                        |         | N°              | 1               | 1               | 1               | 1               | 1               | 2               | 3               | 3               | 3               |
| Air flow                        | (3)     | m³/h            | 2700            | 4100            | 5100            | 7500            | 12000           | 12000           | 17500           | 32000           | 32000           |
| <b>NOISE LEVEL</b>              |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Sound Power                     |         | dB(A)           | 57              | 64              | 62              | 68              | 74              | 77              | 72              | 78              | 80              |
| Sound Pressure                  | (4)     | dB(A)           | 41              | 48              | 46              | 51              | 57              | 60              | 54              | 60              | 62              |
| <b>SIZE AND WEIGHT</b>          |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| A                               | (3)     | mm              | 650             | 785             | 1085            | 1630            | 1955            | 1955            | 2499            | 2899            | 3299            |
| B                               | (3)     | mm              | 675             | 675             | 775             | 930             | 930             | 930             | 930             | 930             | 930             |
| H                               | (3)     | mm              | 1925            | 1925            | 1925            | 1980            | 1980            | 1980            | 1980            | 1980            | 1980            |
| Weight                          | (3)     | kg              | 240             | 290             | 345             | 490             | 620             | 590             | 785             | 960             | 1100            |
|                                 |         |                 |                 |                 |                 |                 |                 |                 |                 |                 | 1125            |

## Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Unit in standard configuration/execution, without optional accessories.

4 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.



# NEXT LEGACY

HIGH PRECISION AIR CONDITIONERS, FROM 3 TO 155 kW

INVERTER AIR COOLED DUAL FLUID

## i-NEXT DF DX Air Cooled Dual Fluid Air Conditioners with inverter technology

| i-NEXT DF DX-OVER                  |         | 012 M1 S   | 018 M1 S   | 022 M1 S   | 030 M1 S   | 042 M2 D   | 047 M1 S   | 068 M2 D   | 094 M2 D   |        |
|------------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|--------|
| Frame                              |         | E1         | E2         | E3         | E4         | E5         | E5         | E7         | E8         |        |
| Power supply                       | V/ph/Hz | 400/3+N/50 |        |
| <b>PERFORMANCE</b>                 |         |            |            |            |            |            |            |            |            |        |
| <b>DIRECT EXPANSION</b>            |         |            |            |            |            |            |            |            |            |        |
| Total cooling capacity gross       | (1)     | kW         | 9,12       | 17,8       | 22,2       | 30,7       | 43,8       | 48,2       | 68,6       | 93,9   |
| Sensible cooling capacity gross    | (1)     | kW         | 9,12       | 17,7       | 22,2       | 30,7       | 43,8       | 48,2       | 68,6       | 93,9   |
| Total power input (Comp.+fans)     | (1)     | kW         | 2,14       | 4,95       | 6,05       | 7,75       | 11,5       | 13,0       | 17,8       | 25,1   |
| EER (Indoor unit)                  | (1)     | kW/kW      | 4,26       | 3,60       | 3,67       | 3,96       | 3,81       | 3,71       | 3,85       | 3,74   |
| SHR                                | (2)     |            | 1,00       | 0,99       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00   |
| <b>CHILLED WATER</b>               |         |            |            |            |            |            |            |            |            |        |
| Total cooling capacity gross       | (3)     | kW         | 11,8       | 18,0       | 23,2       | 34,9       | 55,9       | 55,9       | 92,3       | 116    |
| Sensible cooling capacity gross    | (3)     | kW         | 11,8       | 18,0       | 23,2       | 34,9       | 55,7       | 55,7       | 85,3       | 107    |
| SHR                                | (2)     |            | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 0,92       | 0,92   |
| Fluid flow                         | (3)     | l/s        | 0,57       | 0,86       | 1,11       | 1,67       | 2,67       | 2,67       | 4,42       | 5,55   |
| Total pressure drop (Coil + Valve) | (3)     | kPa        | 14,1       | 34,1       | 21,1       | 11,7       | 33,5       | 33,5       | 33,1       | 56,7   |
| <b>REFRIGERANT CIRCUIT</b>         |         |            |            |            |            |            |            |            |            |        |
| Compressors nr,                    |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 2          | 2      |
| No. Circuits                       |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 2          | 2      |
| Refrigerant charge                 |         | kg         |            |            |            |            |            |            |            |        |
| <b>FANS</b>                        |         |            |            |            |            |            |            |            |            |        |
| Fans type                          |         |            | EC FAN     | EC FAN |
| Quantity                           |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 2          | 2      |
| Air flow                           | (4)     | m³/h       | 2700       | 4100       | 5100       | 7500       | 12000      | 12000      | 17500      | 22000  |
| <b>NOISE LEVEL</b>                 |         |            |            |            |            |            |            |            |            |        |
| Sound Power                        |         | dB(A)      | 58         | 64         | 61         | 68         | 82         | 76         | 72         | 78     |
| Sound Pressure                     | (5)     | dB(A)      | 42         | 48         | 45         | 51         | 65         | 59         | 55         | 60     |
| <b>SIZE AND WEIGHT</b>             |         |            |            |            |            |            |            |            |            |        |
| A                                  | (4)     | mm         | 650        | 785        | 1085       | 1305       | 1630       | 1630       | 2175       | 2499   |
| B                                  | (4)     | mm         | 675        | 675        | 775        | 930        | 930        | 930        | 930        | 930    |
| H                                  | (4)     | mm         | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       | 1980       | 1980   |
| Weight                             | (4)     | kg         | 230        | 263        | 353        | 473        | 629        | 532        | 724        | 894    |
| <b>COUPLING UNIT EXTERNAL</b>      |         |            |            |            |            |            |            |            |            |        |
| Standard remote condenser linked   |         |            |            |            |            |            |            |            |            |        |
| Voltage                            |         |            |            |            |            |            |            |            |            |        |
| Quantity                           |         | N°         |            |            |            |            |            |            |            |        |

### Notes:

- 1 Indoor conditions (in) 26°C - R.H. 40%; Condensing temperature 45°C; ESP= 20Pa.
  - 2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.
  - 3 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 7°C/12°C; ESP= 20Pa.
  - 4 Unit in standard configuration/execution, without optional accessories.
  - 5 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.
- The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

# i-NEXT



| i-NEXT DF DX - UNDER               |         |            | 012 M1 S   | 018 M1 S   | 022 M1 S   | 030 M1 S   | 042 M2 D   | 047 M1 S   | 068 M2 D   | 094 M2 D   | 120 M4 D   | 150 M4 D   |
|------------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frame                              |         | E1         | E2         | E3         | E4         | E5         | E5         | E7         | E8         | E9         | E9         | E9         |
| Power supply                       | V/ph/Hz | 400/3+N/50 |
| <b>PERFORMANCE</b>                 |         |            |            |            |            |            |            |            |            |            |            |            |
| <b>DIRECT EXPANSION</b>            |         |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross       | (1)     | kW         | 9,12       | 17,8       | 22,2       | 30,7       | 43,8       | 48,2       | 68,6       | 93,9       | 111        | 134        |
| Sensible cooling capacity gross    | (1)     | kW         | 9,12       | 17,7       | 22,2       | 30,7       | 43,8       | 48,2       | 68,6       | 93,9       | 111        | 134        |
| Total power input (Comp.+fans)     | (1)     | kW         | 2,14       | 4,83       | 6,05       | 7,75       | 11,7       | 13,0       | 17,8       | 25,1       | 30,0       | 36,1       |
| EER (Indoor unit)                  | (1)     | kW/kW      | 4,26       | 3,69       | 3,67       | 3,96       | 3,74       | 3,71       | 3,85       | 3,74       | 3,70       | 3,71       |
| SHR                                | (2)     |            | 1,00       | 0,99       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       |
| <b>CHILLED WATER</b>               |         |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross       | (3)     | kW         | 11,8       | 18,0       | 23,2       | 34,9       | 55,9       | 55,9       | 92,3       | 116        | 141        | 141        |
| Sensible cooling capacity gross    | (3)     | kW         | 11,8       | 18,0       | 23,2       | 34,9       | 55,7       | 55,7       | 85,3       | 107        | 141        | 141        |
| SHR                                | (2)     |            | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 0,92       | 0,92       | 1,00       | 1,00       |
| Fluid flow                         | (3)     | l/s        | 0,57       | 0,86       | 1,11       | 1,67       | 2,67       | 2,67       | 4,42       | 5,55       | 6,75       | 6,75       |
| Total pressure drop (Coil + Valve) | (3)     | kPa        | 14,1       | 34,1       | 21,1       | 11,7       | 33,5       | 33,5       | 33,1       | 56,7       | 40,5       | 40,4       |
| <b>REFRIGERANT CIRCUIT</b>         |         |            |            |            |            |            |            |            |            |            |            |            |
| Compressors nr,                    |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 2          | 2          | 4          | 4          |
| No. Circuits                       |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 2          | 2          | 2          | 2          |
| Refrigerant charge                 |         | kg         |            |            |            |            |            |            |            |            |            |            |
| <b>FANS</b>                        |         |            |            |            |            |            |            |            |            |            |            |            |
| Fans type                          |         |            | EC FAN     |
| Quantity                           |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 2          | 2          | 3          | 3          |
| Air flow                           | (4)     | m³/h       | 2700       | 4100       | 5100       | 7500       | 12000      | 12000      | 17500      | 22000      | 32000      | 32000      |
| <b>NOISE LEVEL</b>                 |         |            |            |            |            |            |            |            |            |            |            |            |
| Sound Power                        |         | dB(A)      | 58         | 64         | 62         | 69         | 75         | 77         | 72         | 79         | 80         | 80         |
| Sound Pressure                     | (5)     | dB(A)      | 42         | 48         | 46         | 52         | 58         | 60         | 55         | 61         | 62         | 62         |
| <b>SIZE AND WEIGHT</b>             |         |            |            |            |            |            |            |            |            |            |            |            |
| A                                  | (4)     | mm         | 650        | 785        | 1085       | 1305       | 1630       | 1630       | 2175       | 2499       | 2899       | 2899       |
| B                                  | (4)     | mm         | 675        | 675        | 775        | 930        | 930        | 930        | 930        | 930        | 930        | 930        |
| H                                  | (4)     | mm         | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       |
| Weight                             | (4)     | kg         | 240        | 273        | 363        | 483        | 639        | 542        | 779        | 954        | 1110       | 1135       |
| <b>COUPLING UNIT EXTERNAL</b>      |         |            |            |            |            |            |            |            |            |            |            |            |
| Standard remote condenser linked   |         |            |            |            |            |            |            |            |            |            |            |            |
| Voltage                            |         |            |            |            |            |            |            |            |            |            |            |            |
| Quantity                           |         | N°         |            |            |            |            |            |            |            |            |            |            |

**Notes:**

1 Indoor conditions (in) 26°C - R.H. 40%; Condensing temperature 45°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 7°C/12°C; ESP= 20Pa.

4 Unit in standard configuration/execution, without optional accessories.

5 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.



# NEXT LEGACY

HIGH PRECISION AIR CONDITIONERS, FROM 3 TO 155 kW



INVERTER



WATER COOLED



DUAL FLUID

## i-NEXT DF DW Water Cooled Dual Fluid Air Conditioners with inverter technology

| i-NEXT DF DW OVER                  |         | 012 M1 S   | 018 M1 S   | 022 M1 S   | 030 M1 S   | 042 M2 D   | 047 M1 S   | 068 M2 D   | 094 M2 D   |        |
|------------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|--------|
| Frame                              |         | E1         | E2         | E3         | E4L        | E5L        | E5L        | E7L        | E8L        |        |
| Power supply                       | V/ph/Hz | 400/3+N/50 |        |
| <b>PERFORMANCE</b>                 |         |            |            |            |            |            |            |            |            |        |
| <b>DIRECT EXPANSION</b>            |         |            |            |            |            |            |            |            |            |        |
| Total cooling capacity gross       | (1)     | kW         | 9,73       | 19,2       | 23,9       | 32,6       | 46,2       | 50,9       | 72,3       | 99,5   |
| Sensible cooling capacity gross    | (1)     | kW         | 9,72       | 17,8       | 22,3       | 31,2       | 45,1       | 48,0       | 69,8       | 92,6   |
| Total power input (Comp.+fans)     | (1)     | kW         | 1,72       | 4,26       | 5,42       | 6,79       | 10,7       | 11,9       | 15,8       | 22,8   |
| EER (Indoor unit)                  | (1)     | KW/kW      | 5,66       | 4,51       | 4,41       | 4,80       | 4,32       | 4,28       | 4,58       | 4,36   |
| SHR                                | (2)     |            | 1,00       | 0,93       | 0,93       | 0,96       | 0,98       | 0,94       | 0,97       | 0,93   |
| <b>CHILLED WATER</b>               |         |            |            |            |            |            |            |            |            |        |
| Total cooling capacity gross       | (3)     | kW         | 13,3       | 19,8       | 25,6       | 38,7       | 61,4       | 61,4       | 97,9       | 123    |
| Sensible cooling capacity gross    | (3)     | kW         | 10,2       | 17,3       | 22,5       | 33,3       | 50,0       | 50,0       | 79,9       | 97,1   |
| SHR                                | (2)     |            | 0,77       | 0,87       | 0,88       | 0,86       | 0,81       | 0,81       | 0,82       | 0,79   |
| Fluid flow                         | (3)     | l/s        | 0,63       | 0,95       | 1,22       | 1,85       | 2,94       | 2,94       | 4,68       | 5,88   |
| Total pressure drop (Coil + Valve) | (3)     | kPa        | 17,3       | 40,5       | 25,2       | 14,0       | 39,7       | 39,7       | 36,8       | 62,7   |
| <b>EXCHANGERS</b>                  |         |            |            |            |            |            |            |            |            |        |
| Capacitors nr,                     |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1      |
| Condenser fluid flow               | (1)     | l/s        | 0,54       | 1,10       | 1,38       | 1,85       | 2,63       | 2,90       | 4,12       | 5,68   |
| Pressure drop                      | (1)     | kPa        | 21,0       | 30,9       | 29,4       | 17,2       | 18,0       | 40,5       | 22,2       | 26,4   |
| <b>REFRIGERANT CIRCUIT</b>         |         |            |            |            |            |            |            |            |            |        |
| Compressors nr,                    |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 2          | 2      |
| No. Circuits                       |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 1          | 2      |
| Refrigerant charge                 |         | kg         |            |            |            |            |            |            |            |        |
| <b>FANS</b>                        |         |            |            |            |            |            |            |            |            |        |
| Fans type                          |         |            | EC FAN     | EC FAN |
| Quantity                           |         | N°         | 1          | 1          | 1          | 1          | 1          | 2          | 2          | 2      |
| Air flow                           | (4)     | m³/h       | 2700       | 4100       | 5100       | 7500       | 12000      | 12000      | 17500      | 22000  |
| <b>NOISE LEVEL</b>                 |         |            |            |            |            |            |            |            |            |        |
| Sound Power                        |         | dB(A)      | 57         | 63         | 61         | 67         | 76         | 76         | 72         | 78     |
| Sound Pressure                     | (5)     | dB(A)      | 41         | 47         | 45         | 50         | 59         | 59         | 54         | 60     |
| <b>SIZE AND WEIGHT</b>             |         |            |            |            |            |            |            |            |            |        |
| A                                  | (4)     | mm         | 650        | 785        | 1085       | 1630       | 1955       | 1955       | 2499       | 2899   |
| B                                  | (4)     | mm         | 675        | 675        | 775        | 930        | 930        | 930        | 930        | 930    |
| H                                  | (4)     | mm         | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       | 1980       | 1980   |
| Weight                             | (4)     | kg         | 230        | 280        | 325        | 480        | 610        | 580        | 730        | 900    |

Notes:

1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 7°C/12°C; ESP= 20Pa.

4 Unit in standard configuration/execution, without optional accessories.

5 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

# i-NEXT



| i-NEXT DF DW UNDER                 |         |            | 012 M1 S   | 018 M1 S   | 022 M1 S   | 030 M1 S   | 042 M2 D   | 047 M1 S   | 068 M2 D   | 094 M2 D   | 120 M4 D   | 150 M4 D   |
|------------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frame                              |         | E1         | E2         | E3         | E4L        | E5L        | E5L        | E7L        | E8L        | E9L        | E9L        | E9L        |
| Power supply                       | V/ph/Hz | 400/3+N/50 |
| <b>PERFORMANCE</b>                 |         |            |            |            |            |            |            |            |            |            |            |            |
| <b>DIRECT EXPANSION</b>            |         |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross       | (1)     | kW         | 9,73       | 19,2       | 23,9       | 32,6       | 46,2       | 50,9       | 72,3       | 99,5       | 117        | 141        |
| Sensible cooling capacity gross    | (1)     | kW         | 9,72       | 17,8       | 22,3       | 31,2       | 45,1       | 48,0       | 69,8       | 92,6       | 114        | 133        |
| Total power input (Comp.+fans)     | (1)     | kW         | 1,72       | 4,37       | 5,34       | 6,79       | 10,7       | 11,7       | 15,8       | 22,8       | 27,0       | 32,8       |
| EER (Indoor unit)                  | (1)     | kW/kW      | 5,66       | 4,39       | 4,48       | 4,80       | 4,32       | 4,35       | 4,58       | 4,36       | 4,33       | 4,30       |
| SHR                                | (2)     |            | 1,00       | 0,93       | 0,93       | 0,96       | 0,98       | 0,94       | 0,97       | 0,93       | 0,97       | 0,94       |
| <b>CHILLED WATER</b>               |         |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross       | (3)     | kW         | 13,3       | 19,8       | 25,6       | 38,7       | 61,4       | 61,4       | 97,9       | 123        | 150        | 150        |
| Sensible cooling capacity gross    | (3)     | kW         | 10,2       | 17,3       | 22,5       | 33,3       | 50,0       | 50,0       | 79,9       | 97,1       | 128        | 128        |
| SHR                                | (2)     |            | 0,77       | 0,87       | 0,88       | 0,86       | 0,81       | 0,81       | 0,82       | 0,79       | 0,85       | 0,85       |
| Fluid flow                         | (3)     | l/s        | 0,63       | 0,95       | 1,22       | 1,85       | 2,94       | 2,94       | 4,68       | 5,88       | 7,17       | 7,17       |
| Total pressure drop (Coil + Valve) | (3)     | kPa        | 17,3       | 40,5       | 25,2       | 14,0       | 39,7       | 39,7       | 36,8       | 62,7       | 45,0       | 45,0       |
| <b>EXCHANGERS</b>                  |         |            |            |            |            |            |            |            |            |            |            |            |
| Capacitors nr,                     |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Condenser fluid flow               | (1)     | l/s        | 0,54       | 1,10       | 1,38       | 1,85       | 2,63       | 2,90       | 4,12       | 5,68       | 6,64       | 8,09       |
| Pressure drop                      | (1)     | kPa        | 20,8       | 30,9       | 29,4       | 17,2       | 18,0       | 40,5       | 22,2       | 26,4       | 29,6       | 42,9       |
| <b>REFRIGERANT CIRCUIT</b>         |         |            |            |            |            |            |            |            |            |            |            |            |
| Compressors nr,                    |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 2          | 2          | 4          | 4          |
| No. Circuits                       |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 2          | 2          | 2          | 2          |
| Refrigerant charge                 |         | kg         |            |            |            |            |            |            |            |            |            |            |
| <b>FANS</b>                        |         |            |            |            |            |            |            |            |            |            |            |            |
| Fans type                          |         |            | EC FAN     |
| Quantity                           |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 2          | 2          | 3          | 3          |
| Air flow                           | (4)     | m³/h       | 2700       | 4100       | 5100       | 7500       | 12000      | 12000      | 17500      | 22000      | 32000      | 32000      |
| <b>NOISE LEVEL</b>                 |         |            |            |            |            |            |            |            |            |            |            |            |
| Sound Power                        |         | dB(A)      | 57         | 65         | 62         | 68         | 74         | 77         | 72         | 78         | 80         | 80         |
| Sound Pressure                     | (5)     | dB(A)      | 41         | 49         | 46         | 51         | 57         | 60         | 54         | 60         | 62         | 62         |
| <b>SIZE AND WEIGHT</b>             |         |            |            |            |            |            |            |            |            |            |            |            |
| A                                  | (4)     | mm         | 650        | 785        | 1085       | 1630       | 1955       | 1955       | 2499       | 2899       | 3299       | 3299       |
| B                                  | (4)     | mm         | 675        | 675        | 775        | 930        | 930        | 930        | 930        | 930        | 930        | 930        |
| H                                  | (4)     | mm         | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       |
| Weight                             | (4)     | kg         | 240        | 290        | 345        | 490        | 620        | 590        | 785        | 960        | 1100       | 1125       |

**Notes:**

1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 7°C/12°C; ESP= 20Pa.

4 Unit in standard configuration/execution, without optional accessories.

5 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

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# NEXT LEGACY

HIGH PRECISION AIR CONDITIONERS, FROM 3 TO 155 kW



INVERTER



FREE COOLING



WATER COOLED

**i-NEXT FC DW** Water Cooled Free Cooling Air Conditioners with inverter technology

| i-NEXT FC DW- OVER              |         | 012 M1 S   | 018 M1 S   | 022 M1 S   | 030 M1 S   | 042 M2 D   | 047 M1 S   | 068 M2 D   | 094 M2 D   |       |
|---------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|-------|
| Frame                           |         | E1         | E2         | E3         | E4L        | E5L        | E5L        | E7L        | E8L        |       |
| Power supply                    | V/ph/Hz | 400/3+N/50 |       |
| <b>PERFORMANCE</b>              |         |            |            |            |            |            |            |            |            |       |
| <b>DIRECT EXPANSION</b>         |         |            |            |            |            |            |            |            |            |       |
| Total cooling capacity gross    | (1)     | kW         | 9,73       | 19,2       | 23,9       | 32,6       | 46,2       | 50,9       | 72,3       | 99,5  |
| Sensible cooling capacity gross | (1)     | kW         | 9,72       | 17,8       | 22,3       | 31,2       | 45,1       | 48,0       | 69,8       | 92,6  |
| Total power input (Comp.+fans)  | (1)     | kW         | 1,77       | 4,24       | 5,32       | 6,77       | 10,6       | 11,7       | 15,7       | 22,3  |
| EER (Indoor unit)               | (1)     | kW/kW      | 5,50       | 4,53       | 4,49       | 4,82       | 4,36       | 4,35       | 4,61       | 4,46  |
| SHR                             | (2)     |            | 1,00       | 0,93       | 0,93       | 0,96       | 0,98       | 0,94       | 0,97       | 0,93  |
| <b>FREECOOLING</b>              |         |            |            |            |            |            |            |            |            |       |
| FC total capacity               | (3)     | kW         | 10,0       | 15,9       | 20,2       | 29,7       | 46,6       | 47,8       | 71,2       | 90,9  |
| FC sensible capacity            | (3)     | kW         | 10,0       | 15,9       | 20,2       | 29,7       | 46,6       | 47,8       | 71,2       | 90,9  |
| SHR                             | (2)     |            | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00  |
| <b>PLATE CAPACITOR</b>          |         |            |            |            |            |            |            |            |            |       |
| Capacitors nr,                  |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          |       |
| Condenser fluid flow            | (1)     | l/s        | 0,54       | 1,10       | 1,38       | 1,85       | 2,63       | 2,90       | 4,12       | 5,68  |
| Pressure drop                   | (1)     | kPa        | 21,0       | 30,9       | 29,4       | 17,2       | 18,0       | 40,5       | 22,2       | 26,4  |
| <b>REFRIGERANT CIRCUIT</b>      |         |            |            |            |            |            |            |            |            |       |
| Compressors nr,                 |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 3          | 2     |
| No. Circuits                    |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 1          | 2     |
| Refrigerant charge              |         | kg         | 3,20       | 3,80       | 4,60       | 6,80       | 9,40       | 9,90       | 13,8       | 20,2  |
| <b>FANS</b>                     |         |            |            |            |            |            |            |            |            |       |
| Fans type                       |         |            | EC FAN     |       |
| Quantity                        |         | N°         | 1          | 1          | 1          | 1          | 1          | 2          | 2          |       |
| Air flow                        | (4)     | m³/h       | 2700       | 4100       | 5100       | 7500       | 12000      | 12000      | 17500      | 22000 |
| <b>NOISE LEVEL</b>              |         |            |            |            |            |            |            |            |            |       |
| Sound Power                     |         | dB(A)      | 57         | 63         | 61         | 67         | 76         | 76         | 72         | 78    |
| Sound Pressure                  | (5)     | dB(A)      | 41         | 47         | 45         | 50         | 59         | 59         | 54         | 60    |
| <b>SIZE AND WEIGHT</b>          |         |            |            |            |            |            |            |            |            |       |
| A                               | (4)     | mm         | 650        | 785        | 1085       | 1630       | 1955       | 1955       | 2499       | 2899  |
| B                               | (4)     | mm         | 675        | 675        | 775        | 930        | 930        | 930        | 930        | 930   |
| H                               | (4)     | mm         | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       | 1980       | 1980  |
| Weight                          | (4)     | kg         | 250        | 293        | 358        | 523        | 674        | 632        | 805        | 979   |
| <b>COUPLING UNIT EXTERNAL</b>   |         |            |            |            |            |            |            |            |            |       |
| Standard dry cooler linked      |         |            |            |            |            |            |            |            |            |       |
| Voltage                         |         | V/ph/Hz    |            |            |            |            |            |            |            |       |
| Quantity                        |         | N°         |            |            |            |            |            |            |            |       |

**Notes:**

1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP= 20Pa.

2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

3 Indoor air (in) 26°C - R.H. 40%; Water (in) 10°C and water flow of DX mode; ESP = 20Pa.

4 Unit in standard configuration/execution, without optional accessories.

5 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.



| i-NEXT FC DW-UNDER              |         |            | 012 M1 S   | 018 M1 S   | 022 M1 S   | 030 M1 S   | 042 M2 D   | 047 M1 S   | 068 M2 D   | 094 M2 D   | 120 M4 D   | 150 M4 D   |
|---------------------------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frame                           |         | E1         | E2         | E3         | E4L        | E5L        | E5L        | E7L        | E8L        | E9L        | E9L        | E9L        |
| Power supply                    | V/ph/Hz | 400/3+N/50 |
| <b>PERFORMANCE</b>              |         |            |            |            |            |            |            |            |            |            |            |            |
| <b>DIRECT EXPANSION</b>         |         |            |            |            |            |            |            |            |            |            |            |            |
| Total cooling capacity gross    | (1)     | kW         | 9,73       | 19,2       | 23,9       | 32,6       | 46,2       | 50,9       | 72,3       | 99,5       | 117        | 141        |
| Sensible cooling capacity gross | (1)     | kW         | 9,72       | 17,8       | 22,3       | 31,2       | 45,1       | 48,0       | 69,8       | 92,6       | 114        | 133        |
| Total power input (Comp.+fans)  | (1)     | kW         | 1,77       | 4,24       | 5,32       | 6,77       | 10,6       | 11,7       | 15,7       | 22,3       | 27,2       | 32,8       |
| EER (Indoor unit)               | (1)     | kW/kW      | 5,50       | 4,53       | 4,49       | 4,82       | 4,36       | 4,35       | 4,61       | 4,46       | 4,30       | 4,30       |
| SHR                             | (2)     |            | 1,00       | 0,93       | 0,93       | 0,96       | 0,98       | 0,94       | 0,97       | 0,93       | 0,97       | 0,94       |
| <b>FREECOOLING</b>              |         |            |            |            |            |            |            |            |            |            |            |            |
| FC total capacity               | (3)     | kW         | 10,0       | 15,9       | 20,2       | 29,7       | 47,2       | 47,8       | 71,2       | 90,9       | 120        | 124        |
| FC sensible capacity            | (3)     | kW         | 10,0       | 15,9       | 20,2       | 29,7       | 47,2       | 47,8       | 71,2       | 90,9       | 120        | 124        |
| SHR                             | (2)     |            | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       |
| <b>PLATE CAPACITOR</b>          |         |            |            |            |            |            |            |            |            |            |            |            |
| Capacitors nr,                  |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
| Condenser fluid flow            | (1)     | l/s        | 0,54       | 1,10       | 1,38       | 1,85       | 2,63       | 2,90       | 4,12       | 5,68       | 6,64       | 8,09       |
| Pressure drop                   | (1)     | kPa        | 20,8       | 30,9       | 29,4       | 17,2       | 18,0       | 40,5       | 22,2       | 26,4       | 29,6       | 42,9       |
| <b>REFRIGERANT CIRCUIT</b>      |         |            |            |            |            |            |            |            |            |            |            |            |
| Compressors nr,                 |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 2          | 2          | 4          | 4          |
| No. Circuits                    |         | N°         | 1          | 1          | 1          | 1          | 2          | 1          | 2          | 2          | 2          | 2          |
| Refrigerant charge              |         | kg         | 3,20       | 3,80       | 4,60       | 6,80       | 9,40       | 9,90       | 13,8       | 20,2       | 21,6       | 21,6       |
| <b>FANS</b>                     |         |            |            |            |            |            |            |            |            |            |            |            |
| Fan type                        |         |            | EC FAN     |
| Quantity                        |         | N°         | 1          | 1          | 1          | 1          | 1          | 1          | 2          | 2          | 2          | 2          |
| Air flow                        | (4)     | m³/h       | 2700       | 4100       | 5100       | 7500       | 12000      | 12000      | 17500      | 22000      | 32000      | 32000      |
| <b>NOISE LEVEL</b>              |         |            |            |            |            |            |            |            |            |            |            |            |
| Sound Power                     |         | dB(A)      | 57         | 64         | 62         | 68         | 74         | 77         | 72         | 78         | 80         | 80         |
| Sound Pressure                  | (5)     | dB(A)      | 41         | 48         | 46         | 51         | 57         | 60         | 54         | 60         | 62         | 62         |
| <b>SIZE AND WEIGHT</b>          |         |            |            |            |            |            |            |            |            |            |            |            |
| A                               | (4)     | mm         | 650        | 785        | 1085       | 1630       | 1955       | 1955       | 2499       | 2899       | 3299       | 3299       |
| B                               | (4)     | mm         | 675        | 675        | 775        | 930        | 930        | 930        | 930        | 930        | 930        | 930        |
| H                               | (4)     | mm         | 1925       | 1925       | 1925       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       | 1980       |
| Weight                          | (4)     | kg         | 260        | 313        | 378        | 533        | 684        | 642        | 859        | 1049       | 1225       | 1250       |
| <b>COUPLING UNIT EXTERNAL</b>   |         |            |            |            |            |            |            |            |            |            |            |            |
| Standard dry cooler linked      |         |            |            |            |            |            |            |            |            |            |            |            |
| Voltage                         |         | V/ph/Hz    |            |            |            |            |            |            |            |            |            |            |
| Quantity                        |         | N°         |            |            |            |            |            |            |            |            |            |            |

**Notes:**

- 1 Indoor conditions (in) 26°C - R.H. 40%; Water temperature (in/out) 30°C/35°C; ESP= 20Pa.
  - 2 SHR = Sensible cooling capacity gross / Total cooling capacity gross.
  - 3 Indoor air (in) 26°C - R.H. 40%; Water (in) 10°C and water flow of DX mode; ESP = 20Pa.
  - 4 Unit in standard configuration/execution, without optional accessories.
  - 5 Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.
- The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.





for a greener tomorrow



Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.